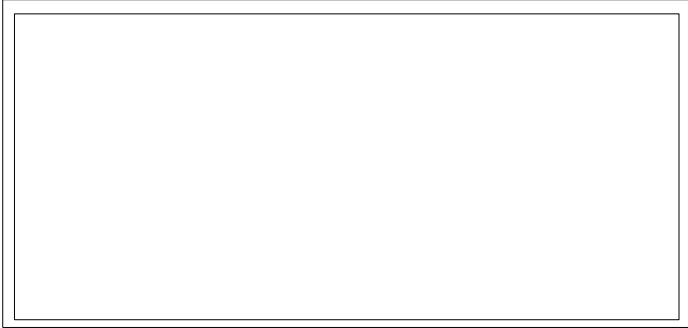


SUBSET 04 - STRUCTURE

INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-01	STRUCTURE SUBSET INDEX SHEET	S-21	WINGWALL ELEVATIONS
S-02	GENERAL PLAN AND ELEVATION	S-22	WINGWALL DETAILS
S-03	PROFILE AND TYPICAL BRIDGE SECTION	S-23	MISCELLANEOUS SUBSTRUCTURE DETAILS
S-04	WORKING POINTS LAYOUT AND QUANTITIES	S-24	FRAMING PLAN
S-05	ERECTION PLAN	S-25	DIAPHRAGM AND STEEL DETAILS
S-06	STAGED CONSTRUCTION PLANS (1 OF 2)	S-26	DECK REINFORCEMENT PLAN AND SECTION
S-07	STAGED CONSTRUCTION PLANS (2 OF 2)	S-27	DECK DETAILS (1 OF 2)
S-08	STAGED CONSTRUCTION DETAILS (1 OF 2)	S-28	DECK DETAILS (2 OF 2)
S-09	STAGED CONSTRUCTION DETAILS (2 OF 2)	S-29	APPROACH SLAB DETAILS
S-10	BORING LOGS (1 OF 4)	S-30	BEARING DETAILS
S-11	BORING LOGS (2 OF 4)	S-31	CONCRETE BARRIER DETAILS
S-12	BORING LOGS (3 OF 4)		
S-13	BORING LOGS (4 OF 4)		
S-14	ABUTMENT NO. 1 FOUNDATION LAYOUT		
S-15	ABUTMENT NO. 2 FOUNDATION LAYOUT		
S-16	ABUTMENT NO. 1 FOOTING PLAN		
S-17	ABUTMENT NO. 2 FOOTING PLAN		
S-18	ABUTMENT NO. 1 PLAN AND ELEVATION		
S-19	ABUTMENT NO. 2 PLAN AND ELEVATION		
S-20	ABUTMENT REINFORCEMENT DETAILS		

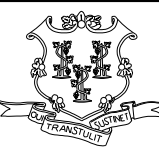
DESIGNED BY:
MCFARLAND JOHNSON




REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: DDM/MTS
CHECKED BY: JCH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION



Filename: ...\\SB_MSH_Br02374_01STRUCT_SUBSET.dgn

SIGNATURE/
BLOCK:



MCFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:

**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:

EAST HARTFORD

DRAWING TITLE:

**STRUCTURE SUBSET
INDEX SHEET**

PROJECT NO.

042-304

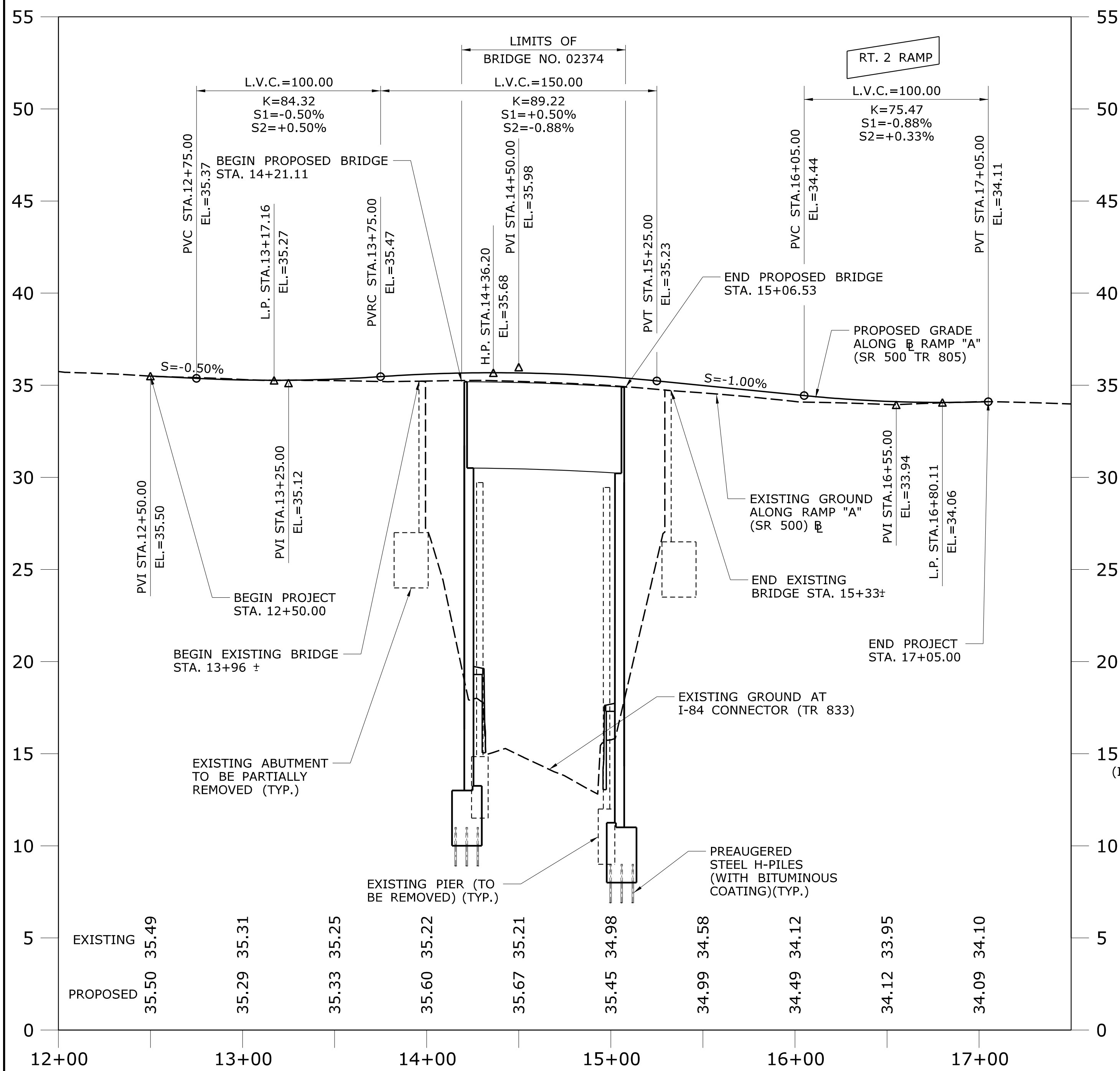
DRAWING NO.

S-01

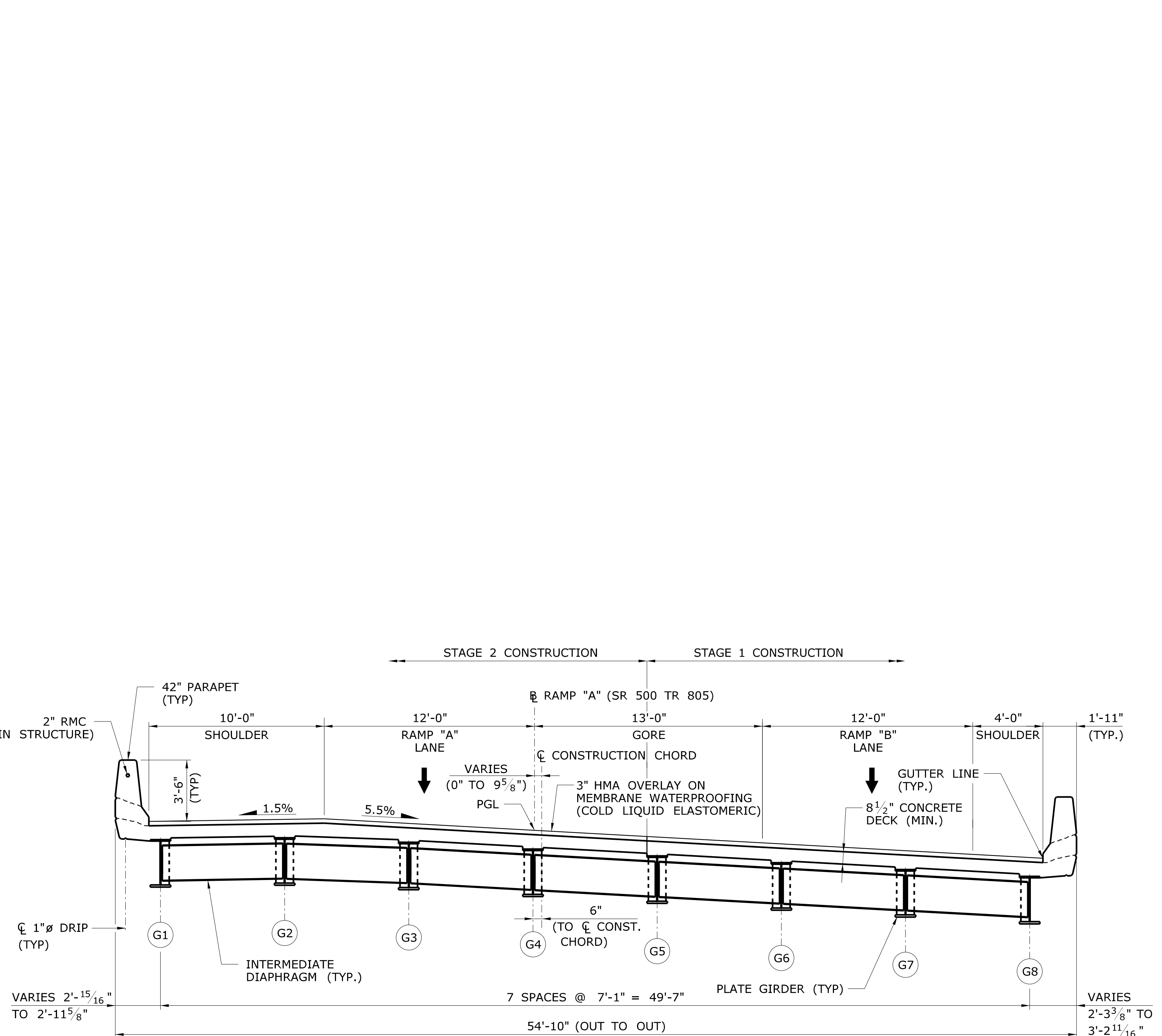
SHEET NO.

01.04.01

TRANSPORTATION		DIMENSIONS AND WEIGHTS		
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING MASS
G1 - G8	81.33 FT	2.71 FT	1.17 FT	14,400 LB



PROFILE - RAMP "A"
SCALE: 1" = 40' HORIZ.
1" = 4' VERTICAL



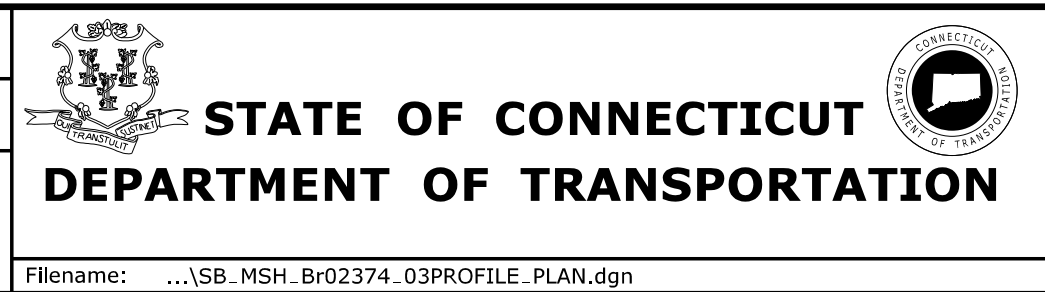
TYPICAL BRIDGE CROSS SECTION
SCALE: 1/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED



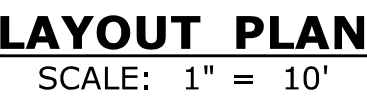
SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:
EAST HARTFORD
DRAWING TITLE:
**PROFILE AND
TYPICAL BRIDGE SECTION**

PROJECT NO.
042-304
DRAWING NO.
S-03
SHEET NO.
01.04.03

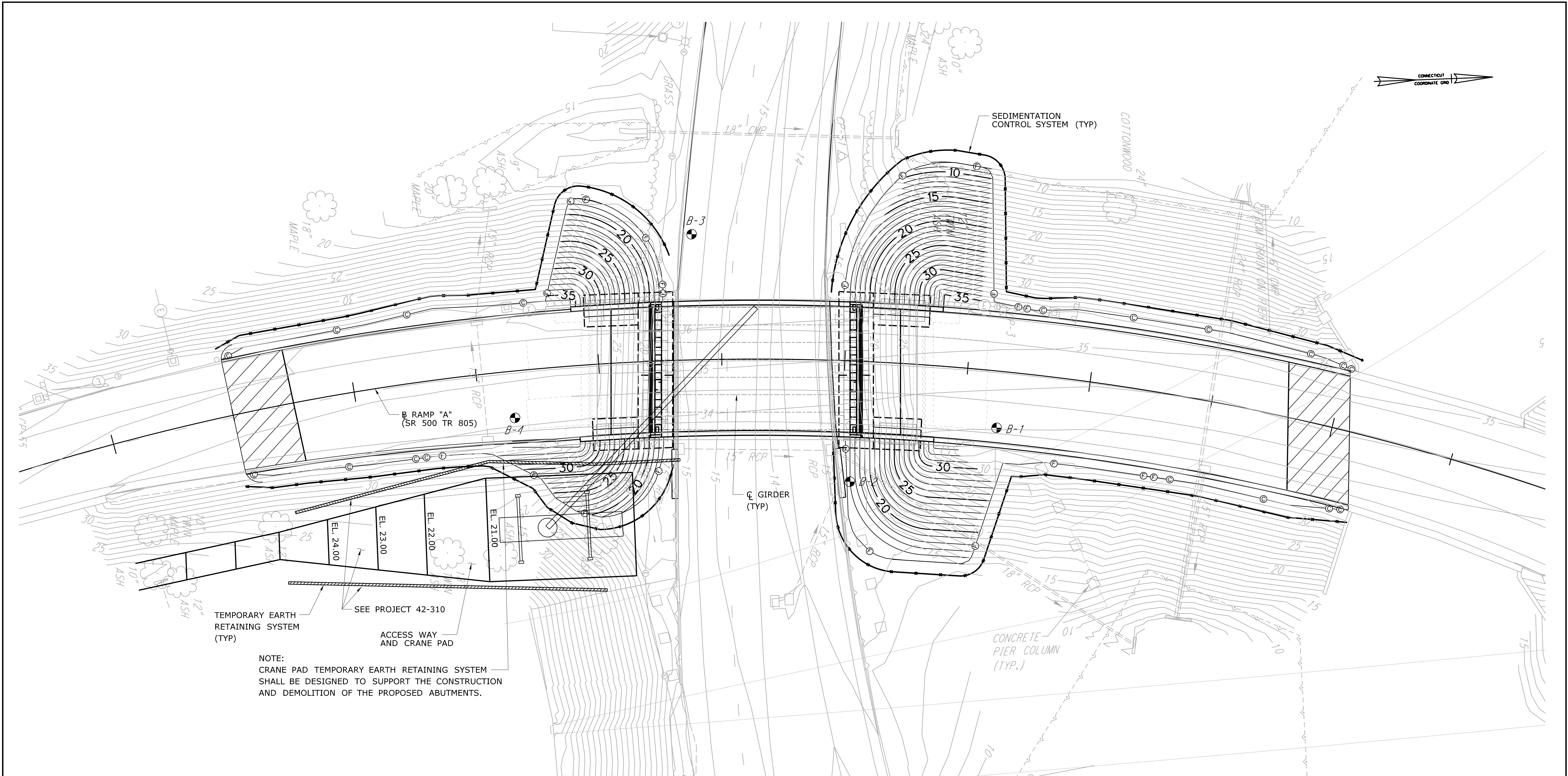


CURVE NO. 1 DATA			
DESCRIPTION	NORTHING	EASTING	STATION
PC	838964.9694	1026045.8172	10+89.9528
PI	839371.8476	1025903.4766	15+21.0105
PT	839754.6995	1026101.5551	19+03.9335
DELTA	46° 38'15.6" RT	LENGTH	813.9807'
TANGENT	431.0577'	RADIUS	1000.000'

ITEM DESCRIPTION	UNIT	QUANTITY
LEAD COMPLIANCE FOR MISCELLANEOUS EXTERIOR TASKS	LS	LS
STRUCTURE EXCAVATION - EARTH (COMPLETE)	CY	1,306
STRUCTURE EXCAVATION - ROCK (COMPLETE)	CY	145
LIGHTWEIGHT FILL	CY	1,700
GRANULAR FILL	CY	115
SAWING AND SEALING JOINTS IN BITUMINOUS CONCRETE PAVEMENT	LF	51
HMA S0.5	TON	77
HMA S0.25	TON	39
REMOVAL OF SUPERSTRUCTURE (SITE NO. 1)	LS	LS
REMOVAL OF EXISTING CONCRETE SUBSTRUCTURE	LS	LS
SHEAR CONNECTORS (SITE NO. 1)	LS	LS
WELDED STUDS	EA	24
1-1/2" POLYVINYL CHLORIDE PLASTIC PIPE	LF	30
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	CF	22
STEEL-LAMINATED ELASTOMERIC BEARINGS	EA	16
CLASS "A" CONCRETE	CY	885
CLASS "F" CONCRETE	CY	297
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	340
1" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	85
DEFORMED STEEL BARS	LB	67,200
DEFORMED STEEL BARS - EPOXY COATED	LB	59,400
DOWEL BAR SPLICER SYSTEM	EA	120
DOWEL BAR SPLICER SYSTEM - EPOXY COATED	EA	90
STRUCTURAL STEEL (SITE NO.1)	LS	LS
BITUMINOUS COATING FOR STEEL PILES	LF	8,835
FURNISHING STEEL PILES	LB	937,900
PRE-AUGERING OF PILES	LF	4,400
DRIVING STEEL PILES	LF	11,170
POINT REINFORCEMENT FOR STEEL PILES	EA	138
TEST PILE (STEEL HP 12 X 84 - 85' LONG)	EA	2
TEST PILE (STEEL HP 12 X 84 - 90' LONG)	EA	2
DYNAMIC PILE DRIVING ANALYSIS (P.D.A.) TEST	EA	4
MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC)	SY	700
DAMPPROOFING	SY	465
TEMPORARY EARTH RETAINING SYSTEM	SF	5,000
PRECAST CONCRETE BARRIER CURB ("F" SHAPE - SINGLE FACE)	LF	120
PRECAST CONCRETE BARRIER CURB ("F" SHAPE - DOUBLE FACE)	LF	40
2" RIGID METAL CONDUIT IN STRUCTURE	LF	150
18" X 12" X 8" CAST IRON JUNCTION BOX	EA	2

1. SEE ROADWAY PLANS FOR COMPLETE BASELINE GEOMETRY.

[illegible]



GENERAL ERECTION NOTES

- 1. THE CONTRACTOR SHALL PREPARE AND SUBMIT A DETAILED ERECTION PLAN FOR ALL STRUCTURAL STEEL. THE PLAN SHALL BE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT AND EXPERIENCED IN STEEL ERECTION.
- 2. THE CRANE LAYOUT IS CONCEPTUAL AND FOR INFORMATIONAL PURPOSES ONLY. THE TRAFFIC OPERATIONAL REQUIREMENTS FOR THE PROJECT, ACTUAL CRANE SIZE, CRANE TYPE, PICKING RADII, AND STEEL MASSES SHALL BE DEVELOPED BY THE CONTRACTOR. CRANES SHALL BE OPERATED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF PUBLIC SAFETY REGULATIONS.
- 3. THE MAXIMUM WEIGHT OF PICK SHOWN REPRESENTS THE APPROXIMATE WEIGHT FOR AN 80 FOOT LONG TWO GIRDER PAIR WITHOUT APPLIED FACTOR OF SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE WEIGHT OF EACH LIFT AND ENSURING THE STABILITY OF EACH MEMBER DURING ALL PHASES OF ERECTION.
- 4. CONCEPTUAL LAYOUT DETERMINED FOR THIS PLAN DID NOT CONSIDER A REDUCTION DUE TO WIND. CONTRACTOR SHALL CONSIDER THE POTENTIAL REDUCTION IN CRANE CAPACITY DUE TO WIND SPEED.

- 5. STRUCTURAL STEEL MAY ONLY BE ERECTED DURING NIGHTTIME HOURS. TRAFFIC ON I-84 MAY BE STOPPED FOR A MAXIMUM DURATION OF 10 MINUTES. THE CONTRACTORS TRAFFIC CONTROL PLAN SHOULD BE SUBMITTED FOR APPROVAL PRIOR TO ERECTION.
- 6. STABILITY OF ALL GIRDERS IS TO BE MAINTAINED DURING ERECTION UNTIL ALL GIRDERS AND CROSS FRAMES ARE PROPERLY INSTALLED. ERECTION LOADS, INCLUDING SELF WEIGHT OF STEEL MEMBERS, WIND LOADING, AND CONSTRUCTION LIVE LOAD EFFECTS ARE TO BE EVALUATED BY THE CONTRACTOR FOR STABILITY STRESSES AND DEFLECTIONS ON THE STEEL MEMBERS DURING ALL PHASES OF CONSTRUCTION.
- 7. MEMBERS SHALL BE SUBJECT TO ONLY LIGHT DRIFTING IN ORDER TO ALIGN HOLES. ANY DRIFTING THAT RESULTS IN DISTORTION OF THE MEMBER OR DAMAGE TO THE HOLES WILL BE CAUSE FOR REJECTION OF THE MEMBER.
- 8. REFER TO ROADWAY PLANS FOR LOCATIONS AND TYPES OF OVERHEAD AND UNDERGROUND UTILITIES AND DRAINAGE.

ERECTION PLAN

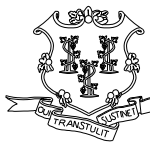
SCALE: 1" = 20'

CRANE DATA USED TO DEVELOP THIS PLAN

CRANE:	GROVE GMK 6300L
CRANE DESCRIPTION:	300-TON HYDRAULIC MOBILE TELESCOPING CRANE
RIGGING WEIGHT:	203,900LB (APPROXIMATE)
MAX. WEIGHT OF PICK:	35,000 LB (GIRDER PAIR-APPROXIMATE)
MAX. BOOM LENGTH:	156 FT
MAX. ANTICIPATED RADIUS:	123 FT


REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014

DESIGNER/DRAFTER: SFD
CHECKED BY: JCH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MSH_Br02374_05ERECT_PLAN.dgn

SIGNATURE/
BLOCK:



McfARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:

**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:

EAST HARTFORD

DRAWING TITLE:

ERECTION PLAN

PROJECT NO.

042-304

DRAWING NO.

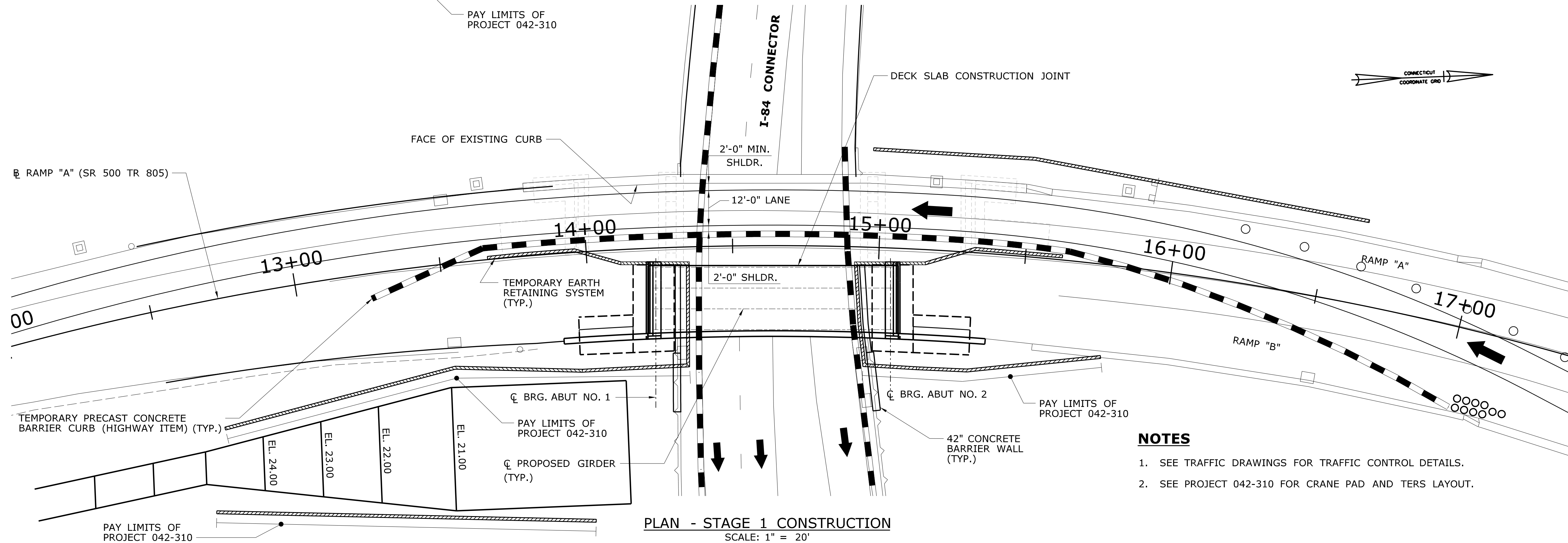
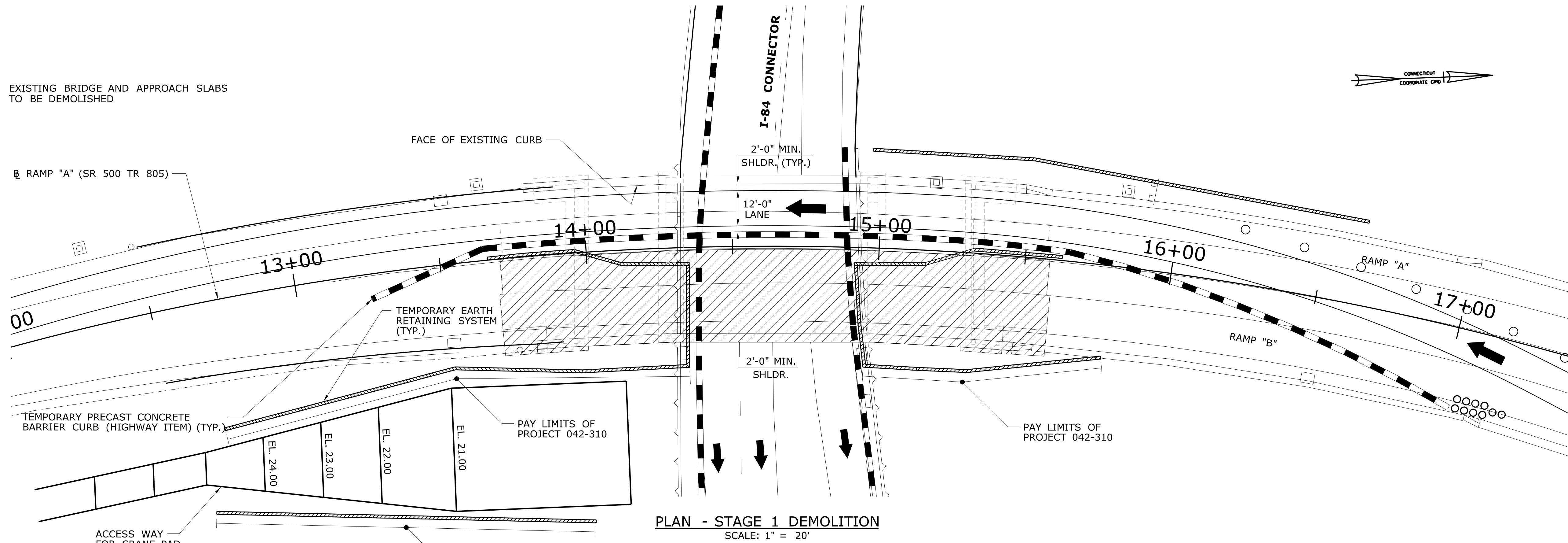
S-05

SHEET NO.

01.04.05

LEGEND

 EXISTING BRIDGE AND APPROACH SLABS TO BE DEMOLISHED



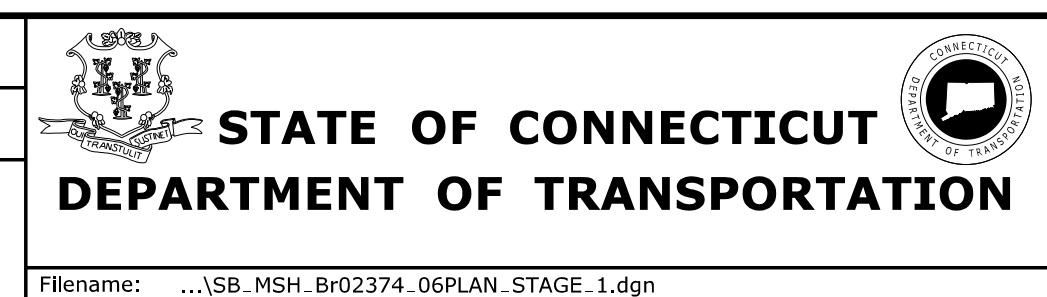
NOTES

1. SEE TRAFFIC DRAWINGS FOR TRAFFIC CONTROL DETAILS.
2. SEE PROJECT 042-310 FOR CRANE PAD AND TERS LAYOUT.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED



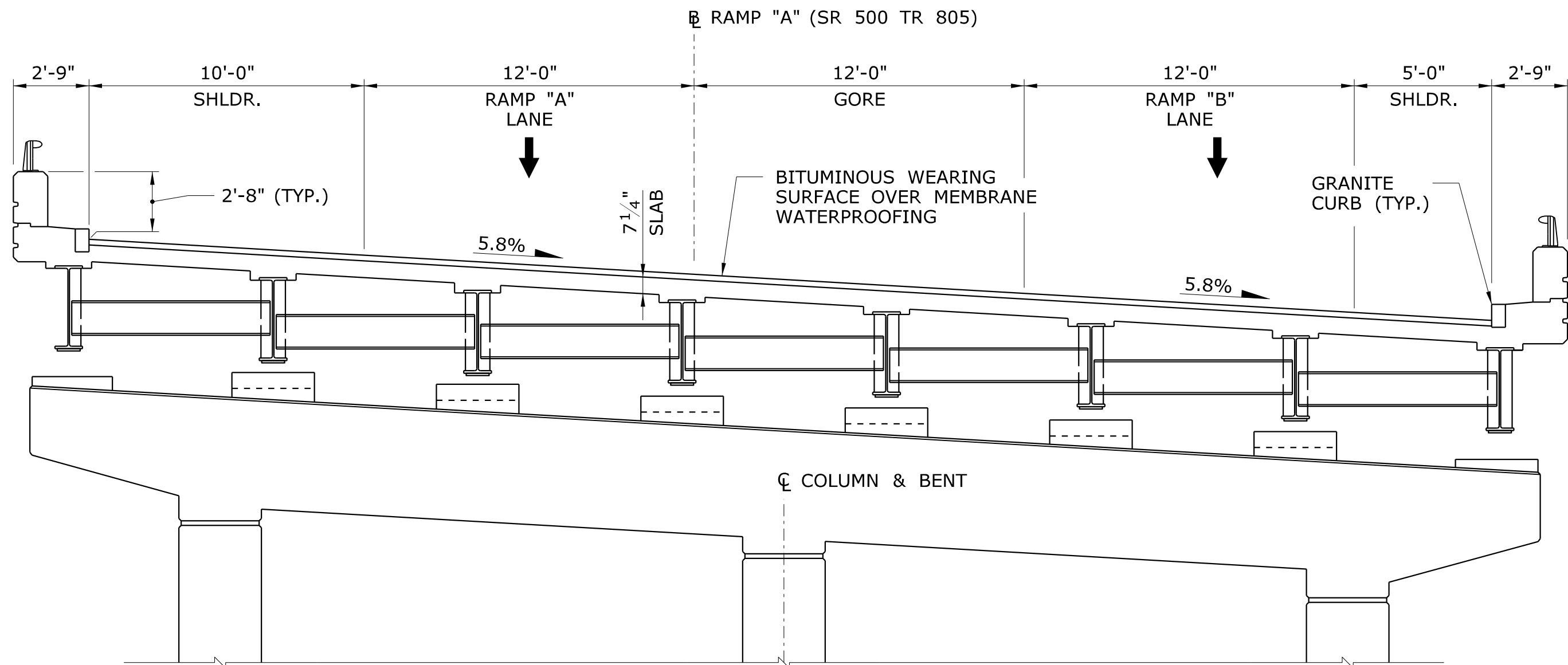
SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

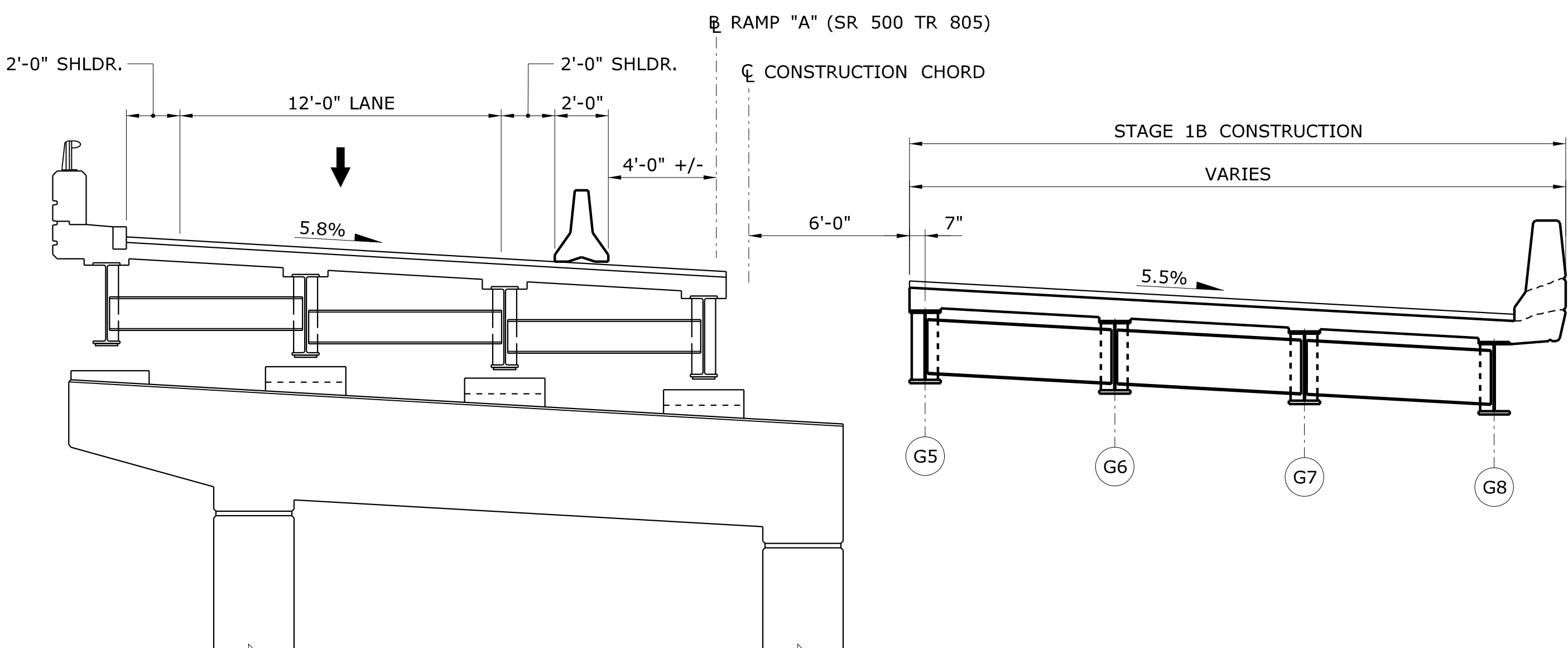
TOWN:
EAST HARTFORD
DRAWING TITLE:
**STAGED CONSTRUCTION
PLANS (1 OF 2)**

PROJECT NO.
042-304
DRAWING NO.
S-06
SHEET NO.
01.04.06



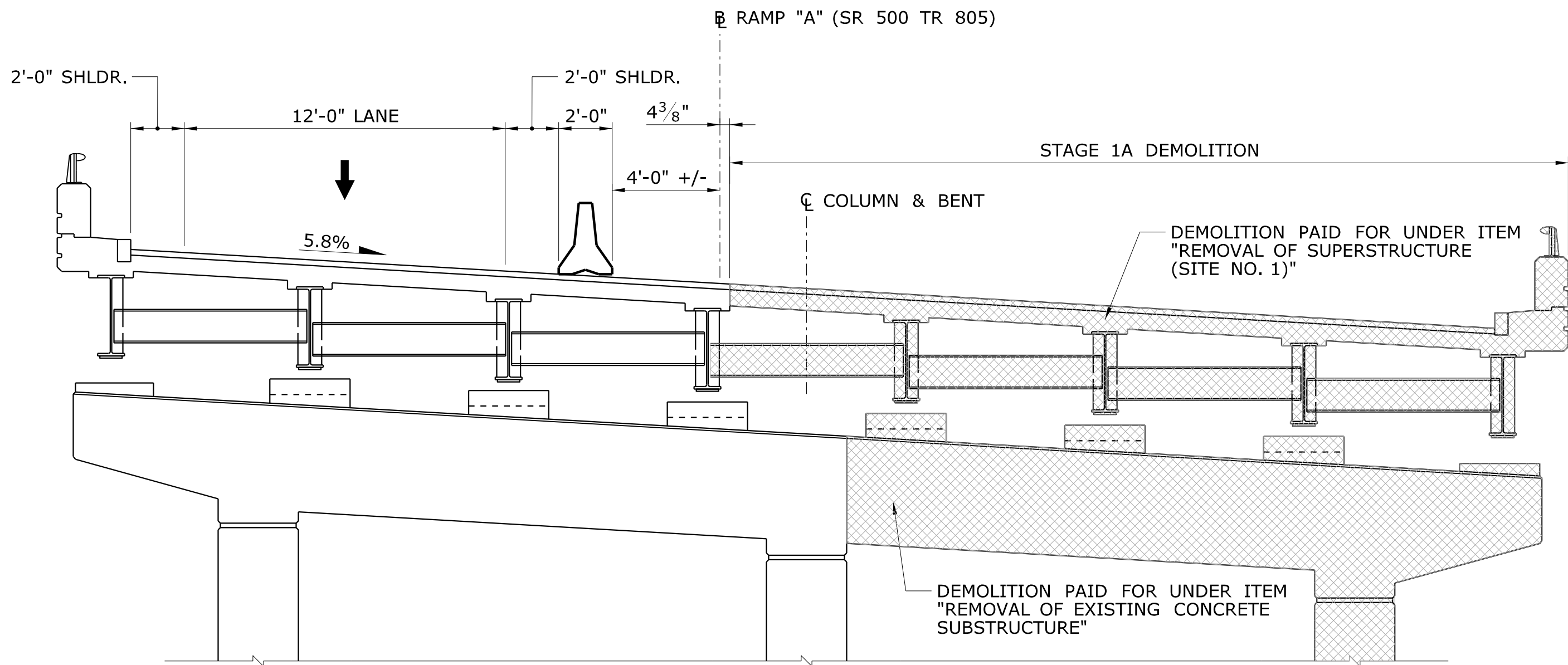
EXISTING CONDITION

SCALE: 1/4" = 1'-0"
(PIER 2 SHOWN)



STAGE 1B CONSTRUCTION

SCALE: 1/4" = 1'-0"
(PIER 2 SHOWN)



STAGE 1A CONSTRUCTION

SCALE: 1/4" = 1'-0"
(PIER 2 SHOWN)

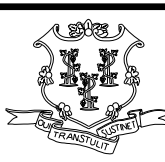
LEGEND

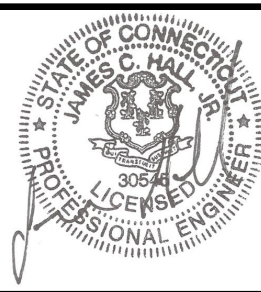
 TO BE DEMOLISHED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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SCALE AS NOTED

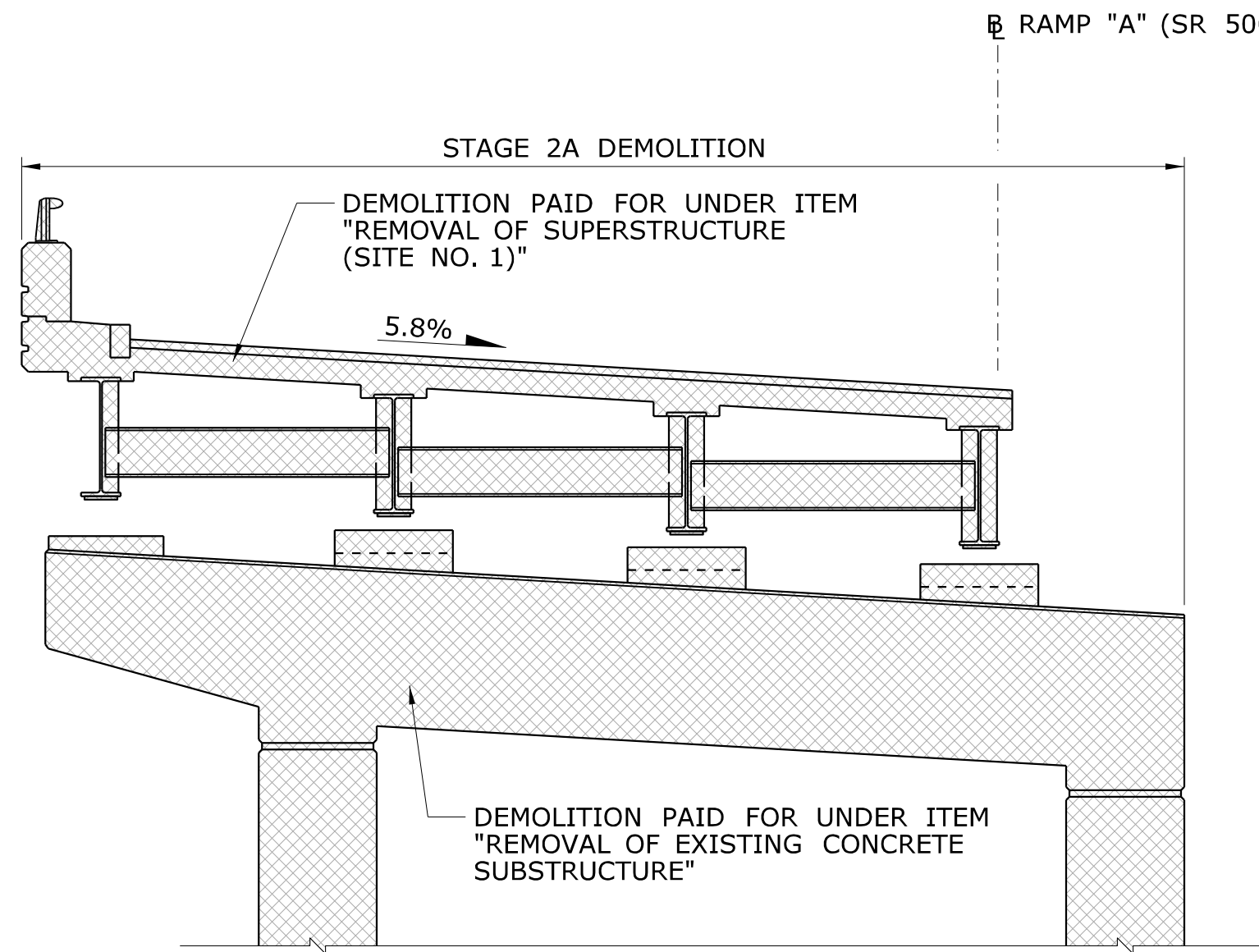
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DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br02374_08CON_STAGE_1.dgn

SIGNATURE/
BLOCK:
 McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

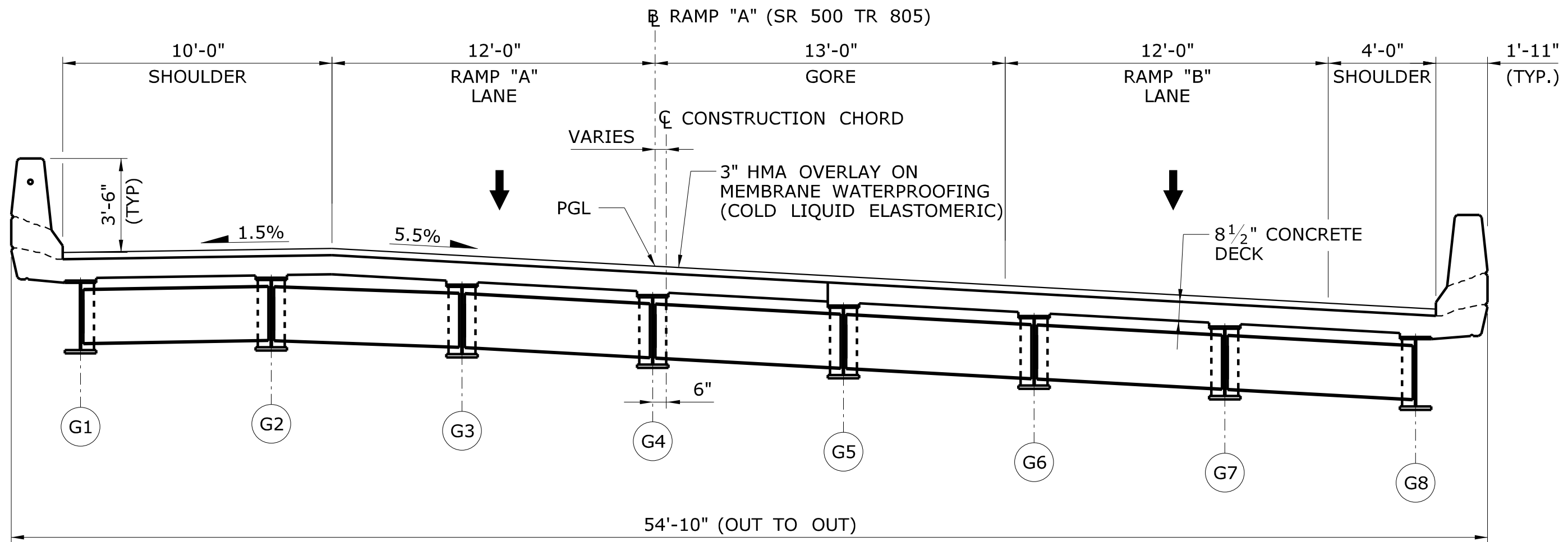
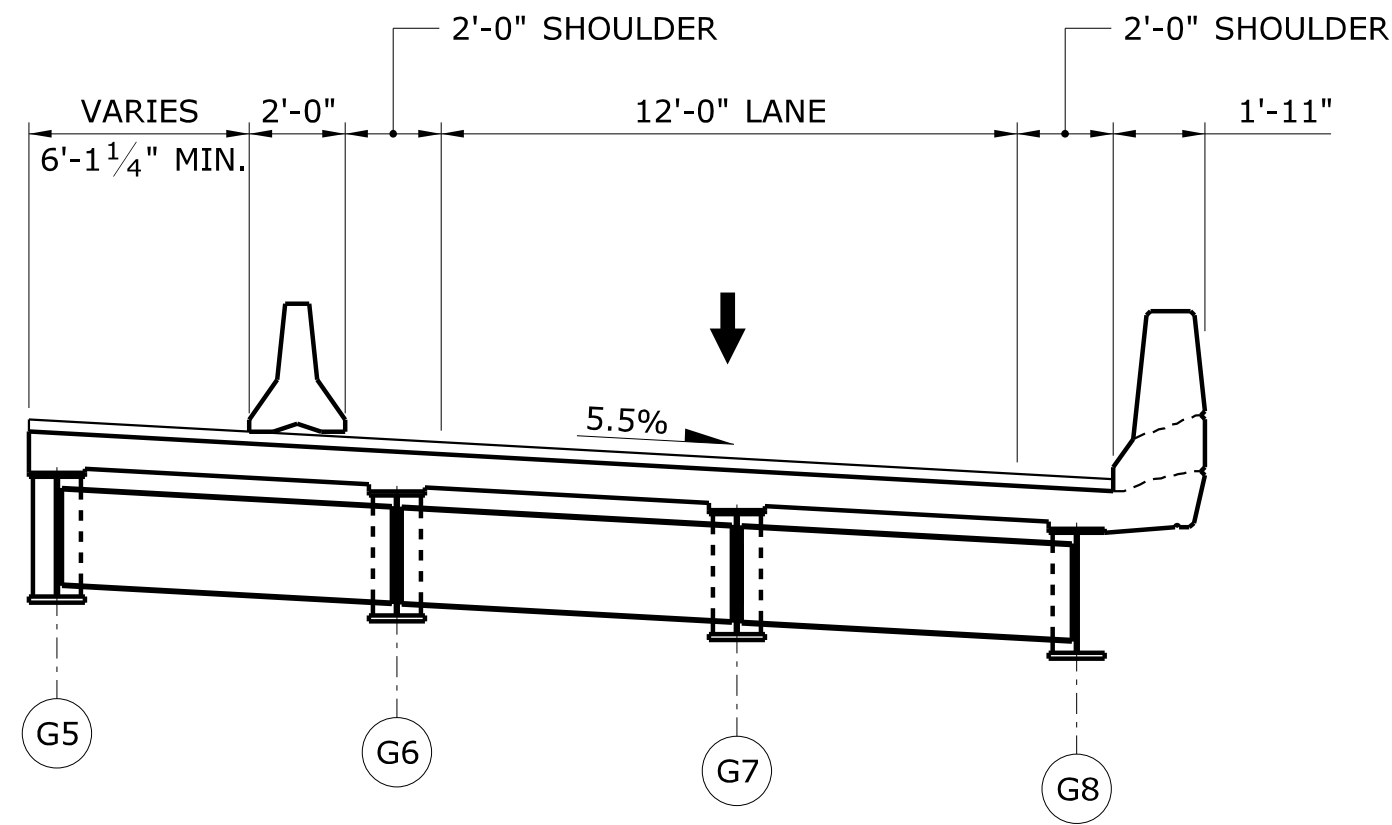
TOWN:
EAST HARTFORD
DRAWING TITLE:
**STAGED CONSTRUCTION
DETAILS (1 OF 2)**

PROJECT NO.
042-304
DRAWING NO.
S-08
SHEET NO.
01.04.08



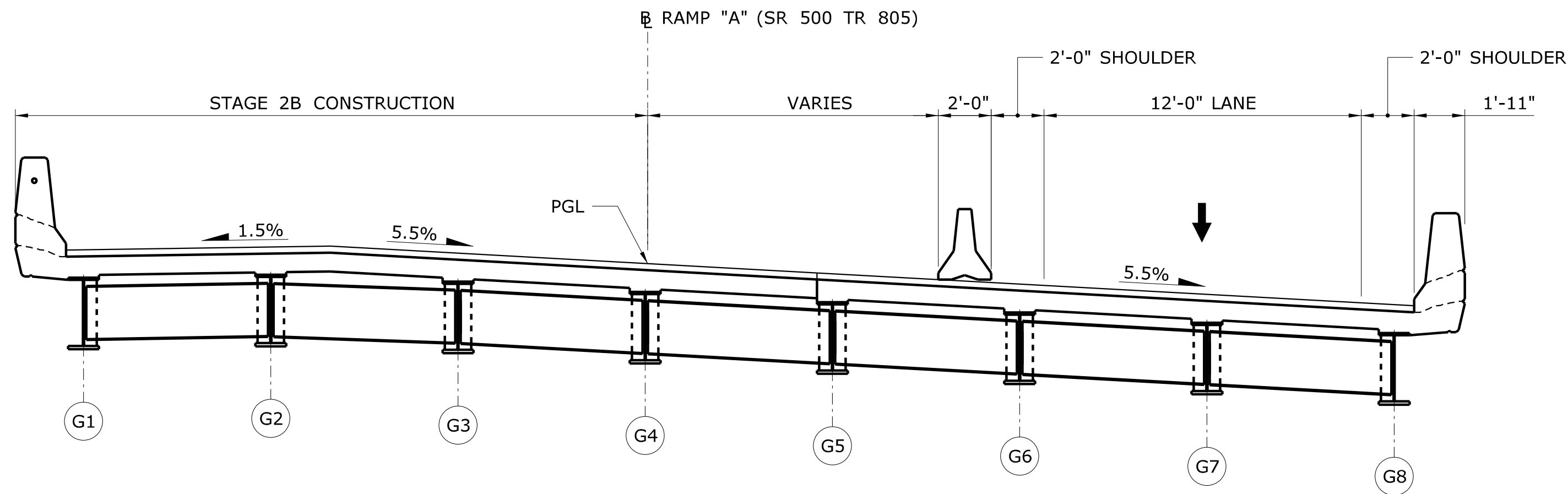
STAGE 2A CONSTRUCTION

SCALE: 1/4" = 1'-0"
(PIER 2 SHOWN)



FINAL CONDITION

SCALE: 1/4" = 1'-0"



STAGE 2B CONSTRUCTION

SCALE: 1/4" = 1'-0"
(PIER 2 SHOWN)


LEGEND

 TO BE DEMOLISHED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br02374_09CON_STAGE_2.dgn

SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:
EAST HARTFORD
DRAWING TITLE:
**STAGED CONSTRUCTION
DETAILS (2 OF 2)**

PROJECT NO.
042-304
DRAWING NO.
S-09
SHEET NO.
01.04.09

Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-1			
Inspector: Brett McKiernan		Town: East Hartford		Stat./Offset: 15+64/23ft RT					
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339387.9					
Start Date: 3-21-14		Route No.: 2		Easting: 625895.9					
Finish Date: 3-24-14		Bridge No.: 02374		Surface Elevation: 34.5					
Project Description: Replacement of Bridge No. 02374									
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS			Core Barrel Type:				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.							
Groundwater Observations: @23 after 0 hours									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)				ROD %
0							PAVEMENT STRUCTURE/ MISC. FILL	10" Pavement	
5	S-1	10	11	9	11	24	14	Red-Brown F-C SAND, some Silt, tr. f Gravel	-30
10	S-2	3	2	2	3	24	10	Red-Brown F-C SAND, little Silt, little f-m Gravel	-25
15	S-3	4	6	6	8	24	10	Red-Brown F-C SAND, little Silt, tr. f Gravel	-20
20	S-4	10	13	20	19	24	14	Green-Brown/Red F-C SAND, some Silt, some c-f Gravel, tr. Concrete	-15
25	S-5	5	3	4	6	24	18	Green-Gray SILTY CLAY tr. Organics	-10
30	S-6	3	2	1	2	24	2	Green-gray CLAYEY SILT, tr. f Sand	-5
35	S-7	5	3	3	5	24	10	Gray F-C SAND, tr. Silt	0
40									-5
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 72ft Rock: 0ft		NOTES: Pushed casing 30' to 35' without hammer. Pushed Shelby tube 70'-72'; allowed to sit for 10 min, turned tube, allowed to sit for 10min, and then pulled rod during which the tube fell off.				Sheet 1 of 2			
No. of Soil Samples: 14		No. of Core Runs: 0						SM-001-M REV. 1/02	

Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-1			
Inspector: Brett McKiernan		Town: East Hartford		Stat./Offset: 15+64/23ft RT					
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339387.9					
Start Date: 3-21-14		Route No.: 2		Easting: 625895.9					
Finish Date: 3-24-14		Bridge No.: 02374		Surface Elevation: 34.5					
Project Description: Replacement of Bridge No. 02374									
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS			Core Barrel Type:				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.							
Groundwater Observations: @23 after 0 hours									
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)	
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)				ROD %
40	S-8	7	7	6	8	24	12	SAND (cont)	
45	S-9	7	9	9	10	24	9	Gray C-F SAND, tr. m-f Gravel, tr. Silt	-10
50	S-10	7	6	4	7	24	9	Gray C-F SAND, little m-f Gravel, tr. Silt	-15
55	S-11	9	4	2	4	24	12	Top 3": Gray C-F SAND, little m-f Gravel, tr. Silt Bottom 9" Red-Brown VARVED CLAY	-20
60	UP-1					24	24	Red-Brown VARVED CLAY	-25
65	S-12	WORWORWOH	3			24	24	Red-Brown VARVED CLAY	-30
70	UP-2					24	0	Red-Brown VARVED CLAY	-35
75								END OF BORING 72ft	-40
80									-45
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 72ft Rock: 0ft		NOTES: Pushed casing 30' to 35' without hammer. Pushed Shelby tube 70'-72'; allowed to sit for 10 min, turned tube, allowed to sit for 10min, and then pulled rod during which the tube fell off.				Sheet 2 of 2			
No. of Soil Samples: 14		No. of Core Runs: 0						SM-001-M REV. 1/02	

NOTES:

1. BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FOR BORING LOG LOCATIONS, SEE SHEET S-2



Driller: Orrin Cone		Connecticut DOT Boring Report				Hole No.: B-2		
Inspector: Glenn L. Arzt		Town: East Hartford		Stat./Offset: 15+04/49ft RT				
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339326.7				
Start Date: 3-24-14		Route No.: 2		Easting: 625916.1				
Finish Date: 3-26-14		Bridge No.: 02374		Surface Elevation: 17.1				
Project Description: Replacement of Bridge No. 02374								
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS		Core Barrel Type: NX				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @15 after 0 hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)			
0						MISC. FILL		15
5	S-1	5	5 5 6	24	9	CLAYEY SILT	Red-Brown F-C SAND, some Silt, tr. f-m Gravel, tr. Organics	10
10	S-2	6	5 6 6	24	18		Gray CLAYEY SILT	
15	S-3	4	7 10 11	24	16	SILTY SAND	Gray F SAND and SILT	0
20	S-4	5	5 2 7	24	10	SAND	Gray F-C SAND, little Silt, tr. c-f Gravel	-5
25	S-5	3	6 5 9	24	6		Gray F-C SAND, tr. Silt	
30	S-6	8	14 15 14	24	12	GRAVELLY SAND	Gray-Brown C-F SAND, little c-f Gravel, tr. Silt	-15
35	S-7	10	10 12 15	24	12		Gray-Brown C-F SAND, some f-c Gravel, tr. Silt	
40						VARVED CLAY		-20
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 86ft Rock: 10ft		NOTES:					Sheet 1 of 3	
No. of Soil Samples: 17 No. of Core Runs: 2							SM-001-M REV. 1/02	

Driller: Orrin Cone		Connecticut DOT Boring Report				Hole No.: B-2		
Inspector: Glenn L. Arzt		Town: East Hartford		Stat./Offset: 15+04/49ft RT				
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339326.7				
Start Date: 3-24-14		Route No.: 2		Easting: 625916.1				
Finish Date: 3-26-14		Bridge No.: 02374		Surface Elevation: 17.1				
Project Description: Replacement of Bridge No. 02374								
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS		Core Barrel Type: NX				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @15 after 0 hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)			
40	S-8	WOHWOHWOH	3	24	24	VARVED CLAY (cont)	Red-Brown VARVED CLAY	-25
45	S-9	WOHWOH	1 2	24	24		Red-Brown VARVED CLAY	
50	S-10	WORWOR	1 2	24	24		Red-Brown VARVED CLAY	-35
55	S-11	WORWORMOR	1	24	24		Red-Brown VARVED CLAY	-40
60	S-12	WORWOR	1 2	24	24		Red-Brown VARVED CLAY	-45
65	S-13	WORWOR	1 1	24	24		Red-Brown VARVED CLAY	-50
70	S-14	WORWOR	1 2	24	24		Red-Brown VARVED CLAY	-55
75	S-15	WOR	1 1 1	24	24		Red-Brown VARVED CLAY	-60
80								-60
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 86ft Rock: 10ft		NOTES:					Sheet 2 of 3	
No. of Soil Samples: 17 No. of Core Runs: 2							SM-001-M REV. 1/02	

Driller: Orrin Cone		Connecticut DOT Boring Report				Hole No.: B-2		
Inspector: Glenn L. Arzt		Town: East Hartford		Stat./Offset: 15+04/49ft RT				
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339326.7				
Start Date: 3-24-14		Route No.: 2		Easting: 625916.1				
Finish Date: 3-26-14		Bridge No.: 02374		Surface Elevation: 17.1				
Project Description: Replacement of Bridge No. 02374								
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS		Core Barrel Type: NX				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @15 after 0 hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)			
80	S-16	42 35 29 30	24	18		GLACIAL TILL (cont)	Red-Brown CLAYEY SILT, some f-c Gravel, tr. f-c Sand	-65
85	S-17	80	1	1			BEDROCK	Red-Brown F-C SAND, some f-c Gravel, little(+) Clayey Silt
90	C-1		60	46	24.2		Red fine grained laminated highly fractured moderately weathered and strong SILTSTONE. Core times(min); 8.5, 11.5, 9.5, 6, 4.5	-75
95	C-2		60	60	22.5		Red fine grained laminated highly fractured moderately weathered and strong SILTSTONE. Core times(min); 4.5, 6.5, 4.5, 6, 3.5	-80
100							END OF BORING 96ft	-85
105								-90
110								-95
115								-100
120								-100
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 86ft Rock: 10ft		NOTES:					Sheet 3 of 3	
No. of Soil Samples: 17 No. of Core Runs: 2							SM-001-M REV. 1/02	

NOTES:

1. BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SFD	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833	TOWN: EAST HARTFORD	PROJECT NO. 042-304
-	-	-	-	CHECKED BY: JCH		DRAWING NO. S-11					
-	-	-	-	SCALE AS NOTED		SHEET NO. 01.04.11					
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014		Filename: ...\\SB_MSH_Br02374-11BOR_LOG_2.dgn					



Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-3				
Inspector: Glenn L. Arzt		Town: East Hartford		Stat./Offset: 14+39/51ft LT						
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339267.9						
Start Date: 3-28-14		Route No.: 2		Easting: 625813						
Finish Date: 4-2-14		Bridge No.: 02374		Surface Elevation: 16.8						
Project Description: Replacement of Bridge No. 02374										
Casing Size/Type: 4in/3in		Sampler Type/Size: 2in SS				Core Barrel Type: NX				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.								
Groundwater Observations: @7 after 0 hours										
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	Sample Type/No.	Blows on Sampler per 6 inches			RCD %					
0						PAVEMENT STRUCTURE/ MISC. FILL	Green-Gray CLAYEY SILT	15		
5	S-1	4	3	2	4	24		18	CLAYEY SILT	
									SILTY SAND	
10	S-2	1	0	1	1	24	23		Green-Gray F-C SAND, some Silt	5
15	S-3	1	1	4	5	24	15		Gray-Green F-C SAND, tr. Silt	0
20	S-4	4	5	5	8	24	12		Gray-Green F-C SAND, tr. Silt	-5
25	S-5	15	26	9	11	24	24		Gray F-C SAND, tr. Silt	-10
30	S-6	6	8	10	10	24	11		Gray C-F SAND, little(+) m-f Gravel, tr. Silt	-15
35	S-7	17	36	67	25	24	18		Gray C-F SAND, little m-f Gravel, tr. Silt	-20
40										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 90ft Rock: 15ft		NOTES: 4" Casing could not be driven past 75.' Cored C-1 and C-2 with casing at 75' but could not maintain an open hole to 95.' Telescoped 3" casing down to 95' and began C-3. Core barrel clogged at possible clay seams in the bedrock during C-3, C-4					Sheet 1 of 3			
No. of Soil Samples: 16		No. of Core Runs: 4						SM-001-M REV. 1/02		

Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-3				
Inspector: Glenn L. Arzt		Town: East Hartford		Stat./Offset: 14+39/51ft LT						
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339267.9						
Start Date: 3-28-14		Route No.: 2		Easting: 625813						
Finish Date: 4-2-14		Bridge No.: 02374		Surface Elevation: 16.8						
Project Description: Replacement of Bridge No. 02374										
Casing Size/Type: 4in/3in		Sampler Type/Size: 2in SS				Core Barrel Type: NX				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.								
Groundwater Observations: @7 after 0 hours										
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	Sample Type/No.	Blows on Sampler per 6 inches			RCD %					
40	S-8	WORWOR	1	2	24	24	VARVED CLAY (cont)	Red-Brown VARVED CLAY	-25	
45	UP-1				24	24		Red-Brown VARVED CLAY	-30	
50	S-9	WOH	1	1	3	24		24	Red-Brown VARVED CLAY	-35
55	UP-2				24	24		Red-Brown VARVED CLAY	-40	
60	S-10	WORWOR	1	2	24	24		Red-Brown VARVED CLAY	-45	
65	S-11	WOR	1	2	3	24	24	Red-Brown VARVED CLAY	-50	
70	S-12	WORWOR	2	3	24	24		Red-Brown VARVED CLAY	-55	
75	S-13	7	10	14	12	24	5	GLACIAL TILL	Red-Brown CLAYEY SILT and C-F GRAVEL, tr. f Sand	-60
80										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 90ft Rock: 15ft		NOTES: 4" Casing could not be driven past 75.' Cored C-1 and C-2 with casing at 75' but could not maintain an open hole to 95.' Telescoped 3" casing down to 95' and began C-3. Core barrel clogged at possible clay seams in the bedrock during C-3, C-4					Sheet 2 of 3			
No. of Soil Samples: 16		No. of Core Runs: 4						SM-001-M REV. 1/02		

Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-3				
Inspector: Glenn L. Arzt		Town: East Hartford		Stat./Offset: 14+39/51ft LT						
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339267.9						
Start Date: 3-28-14		Route No.: 2		Easting: 625813						
Finish Date: 4-2-14		Bridge No.: 02374		Surface Elevation: 16.8						
Project Description: Replacement of Bridge No. 02374										
Casing Size/Type: 4in/3in		Sampler Type/Size: 2in SS				Core Barrel Type: NX				
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.								
Groundwater Observations: @7 after 0 hours										
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	Sample Type/No.	Blows on Sampler per 6 inches			RCD %					
80	S-14	78	65		9	9	GLACIAL TILL (cont)	Red-Brown C-F GRAVEL, some c-f Sand, little Clayey Silt	-65	
85										
90	C-1				60	3		0	Red Cobbles (GLACIAL TILL). Core times(min); 2.5, 2.5, 4, 4.5, 3	-70
95	C-2				60	29	0	BEDROCK	Red fine grained laminated intensely fractured moderately weathered and strong SHALE. Core times(min); 3, 7.5, 4.5, 5.5, 5	-75
100	C-3				60	60	49.2		Red fine grained laminated moderately fractured slightly weathered and strong SILTSTONE/SHALE w/ 0.5"-3" clay seam at 2ft. Core times(min); 3, 7.5, 9, 4, 4	-80
105	C-4				60	57	42.5	Red fine grained laminated highly fractured moderately weathered and medium strong SHALE w/ 0.5"-3" clay seams. Core times(min); 4, 4.5, 4, 3, 6	-85	
110								END OF BORING 105ft		-90
115										
120										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 90ft Rock: 15ft		NOTES: 4" Casing could not be driven past 75.' Cored C-1 and C-2 with casing at 75' but could not maintain an open hole to 95.' Telescoped 3" casing down to 95' and began C-3. Core barrel clogged at possible clay seams in the bedrock during C-3, C-4					Sheet 3 of 3			
No. of Soil Samples: 16		No. of Core Runs: 4						SM-001-M REV. 1/02		

NOTES:

1. BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SFD	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:  McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833	TOWN: EAST HARTFORD	PROJECT NO. 042-304
-	-	-	-	-		CHECKED BY: JCH				DRAWING NO. S-12	
-	-	-	-	-		SCALE AS NOTED				DRAWING TITLE: BORING LOGS (3 OF 4)	SHEET NO. 01.04.12
REV.	DATE	REVISION DESCRIPTION				SHEET NO.	Plotted Date: 11/20/2014				
							Filename: ...\\SB_MSH_Br02374-12BOR_LOG_3.dgn				




Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-4		
Inspector: Brett McKiernan		Town: East Hartford		Stat./Offset: 13+64/19ft RT				
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339192.4				
Start Date: 3-24-14		Route No.: 2		Easting: 625885.1				
Finish Date: 3-26-14		Bridge No.: 02374		Surface Elevation: 35.7				
Project Description: Replacement of Bridge No. 02374								
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS			Core Barrel Type: NX			
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @25 after 0 hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
0						PAVEMENT STRUCTURE/ MISC. FILL	11" Asphalt	-35
5	S-1	15 21 28 25	24	14			Red-Brown F-C SAND, little (+) Silt, little c-f Gravel	-30
10	S-2	15 16 20 25	24	13			Red-Brown F-C SAND, little (+) Silt, little c-f Gravel	-25
15	S-3	4 4 6 9	24	12			Red-Brown/Gray F-C SAND, some Silt, little c-f Gravel	-20
20	S-4	14 26 40 45	24	14			Top 12" Red-Brown F-C SAND, little (+) Silt, tr. f Gravel Bottom 2" Black F-C SAND and SILT, tr. Organics	-15
25	S-5	4 5 4 4	24	19		CLAYEY SILT	Green-Brown CLAYEY SILT, tr. Organics	-10
30	S-6	1 1 1 1	24	20		SILTY SAND	Green-Brown F-C SAND and SILT	-5
35	S-7	10 9 9 9	24	0		SAND		0
40								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 110ft Rock: 5ft		NOTES: Drillers drove casing, took sample, and then took two samples with an open hole and only advanced casing again after every third sample. Rod was wobbling during C-1, resulted in slow core times. Possible bent rod.				Sheet 1 of 3		
No. of Soil Samples: 22 No. of Core Runs: 1						SM-001-M REV. 1/02		

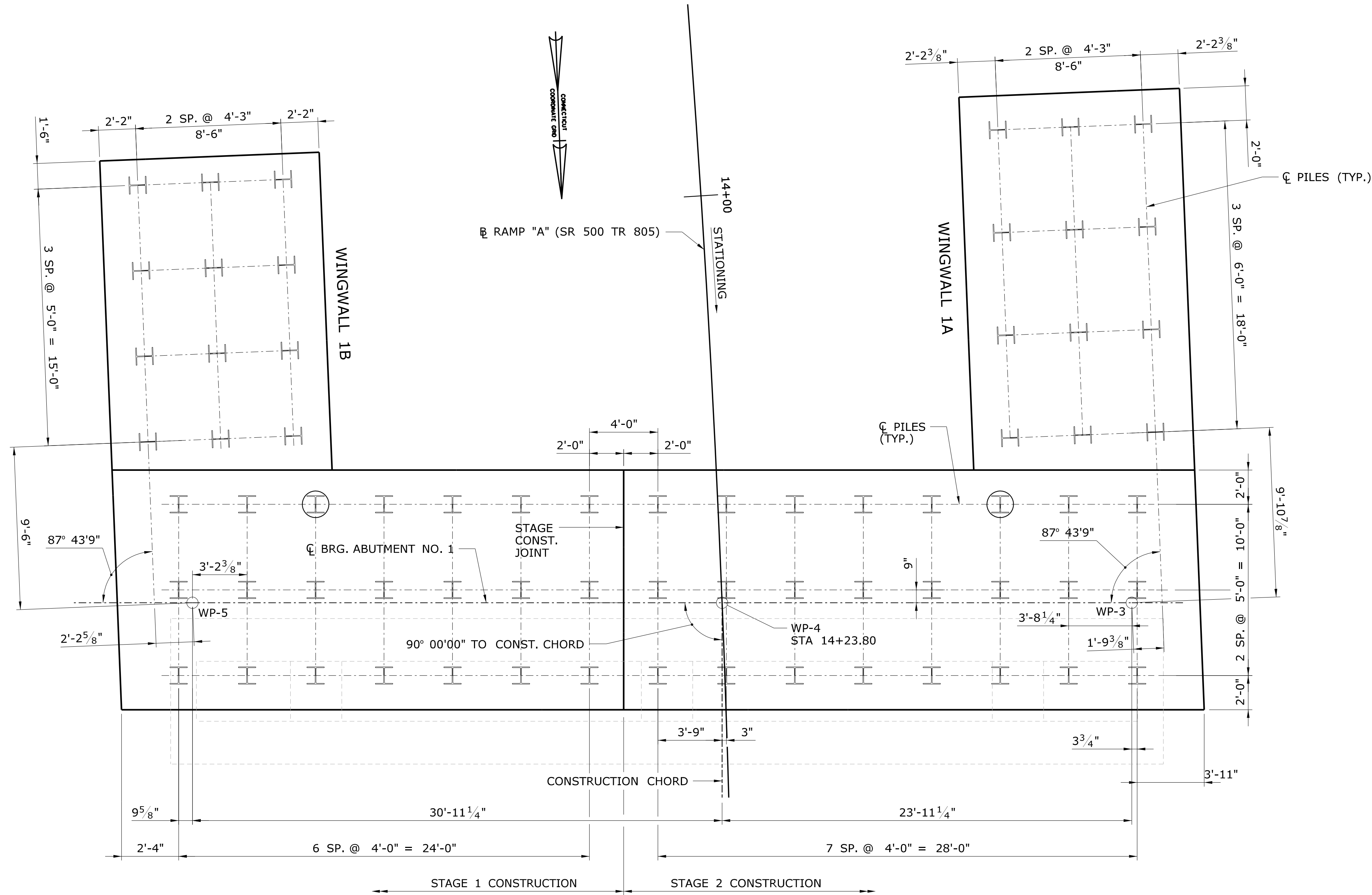
Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-4		
Inspector: Brett McKiernan		Town: East Hartford		Stat./Offset: 13+64/19ft RT				
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339192.4				
Start Date: 3-24-14		Route No.: 2		Easting: 625885.1				
Finish Date: 3-26-14		Bridge No.: 02374		Surface Elevation: 35.7				
Project Description: Replacement of Bridge No. 02374								
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS			Core Barrel Type: NX			
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @25 after 0 hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
40	S-8	9 10 11 14	24	12		SAND (cont)	Gray-Brown F-C SAND, tr. Silt, tr. f Gravel	-5
45	S-9	6 8 14 13	24	10			Gray-Brown F-C SAND, tr. Silt, tr. f-m Gravel	-10
50	S-10	12 15 14 15	24	9		GRAVELLY SAND	Gray-Brown F-C SAND, tr. Silt, tr. c-f Gravel	-15
55	S-11	7 4 4 4	24	20		VARVED CLAY	Top 2" Gray-Brown F-C SAND, little m-f Gravel, tr. Silt Bottom 18" Red-Brown VARVED CLAY	-20
60	S-12	WORWORMOR 3	24	24			Red-Brown VARVED CLAY	-25
65	S-13	WORWORMOR 2	24	24			Red-Brown VARVED CLAY	-30
70	S-14	WORWOR 2 3	24	24			Red-Brown VARVED CLAY	-35
75	S-15	WORWORMORWOR	24	8			Red-Brown VARVED CLAY	-40
80								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 110ft Rock: 5ft		NOTES: Drillers drove casing, took sample, and then took two samples with an open hole and only advanced casing again after every third sample. Rod was wobbling during C-1, resulted in slow core times. Possible bent rod.				Sheet 2 of 3		
No. of Soil Samples: 22 No. of Core Runs: 1						SM-001-M REV. 1/02		

Driller: Ken Smith		Connecticut DOT Boring Report				Hole No.: B-4		
Inspector: Brett McKiernan		Town: East Hartford		Stat./Offset: 13+64/19ft RT				
Engineer: Brett McKiernan		Project No.: 42-304		Northing: 339192.4				
Start Date: 3-24-14		Route No.: 2		Easting: 625885.1				
Finish Date: 3-26-14		Bridge No.: 02374		Surface Elevation: 35.7				
Project Description: Replacement of Bridge No. 02374								
Casing Size/Type: 4in HW		Sampler Type/Size: 2in SS			Core Barrel Type: NX			
Hammer Wt.: 300lb Fall: 30in.		Hammer Wt.: 140lb Fall: 30in.						
Groundwater Observations: @25 after 0 hours								
Depth (ft)	SAMPLES					Generalized Strata Description	Material Description and Notes	Elevation (ft)
	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %			
80	S-16	WORWORMOR 3	24	24		VARVED CLAY (cont)	Red-Brown VARVED CLAY	-45
85	S-17	WORWORMOR 4	24	24			Red-Brown VARVED CLAY	-50
90	S-18	WORWOR 2 3	24	12			Red-Brown VARVED CLAY	-55
95	S-19	WORWORMOR 2	24	14			Red-Brown VARVED CLAY	-60
100	S-20	4 6 18 19	24	3		GLACIAL TILL	Red-Brown CLAYEY SILT, some c-f Gravel, little c-f Sand	-65
105	S-21	50	1	1			Gray Rock Fragments	-70
110	S-22	50	1	0		BEDROCK	Red fine grained laminated intensely fractured moderately weathered strong SILTSTONE with clay seams to bottom. Core times(min); 8, 12, 14, 15, 12/10"	-75
115	C-1		58	48	16.4			-80
120							END OF BORING 115ft	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in Earth: 110ft Rock: 5ft		NOTES: Drillers drove casing, took sample, and then took two samples with an open hole and only advanced casing again after every third sample. Rod was wobbling during C-1, resulted in slow core times. Possible bent rod.				Sheet 3 of 3		
No. of Soil Samples: 22 No. of Core Runs: 1						SM-001-M REV. 1/02		

NOTES:

1. BORING LOGS WERE RECORDED AND EDITED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION.
2. FOR BORING LOG LOCATIONS, SEE SHEET S-2

-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SFD	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION 	SIGNATURE/ BLOCK:  McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833	TOWN: EAST HARTFORD	PROJECT NO. 042-304	
-	-	-	-	-		CHECKED BY: JCH					DRAWING NO. S-13	
-	-	-	-	-		SCALE AS NOTED					DRAWING TITLE: BORING LOGS (4 OF 4)	SHEET NO. 01.04.13
-	-	-	-	-								
-	-	-	-	-								
-	-	-	-	-								
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2014	Filename: ...\\SB_MSH_Br02374-13BOR_LOG_4.dgn							



ABUTMENT NO. 1 PILE LAYOUT

SCALE: 1/4" = 1'-0"

ABUTMENT NO. 1 PILE SCHEDULE

LOCATION	BOTTOM OF FTG. ELEV. (BFE) (FT)	EST. PILE TIP ELEV. (FT)	UNFACTORED DOWNDRAG (KIPS)	ULTIMATE PILE CAPACITY (KIPS)	MAX. FACTORED AXIAL LOAD (KIPS)		NO. OF PILES PER FOOTING	PILE CUT-OFF ELEVATION (FT)	EST. FURNISHED LENGTH (FT) (SEE NOTE 9)
					AASHTO STRENGTH I LIMIT STATE	AASHTO SERVICE I LIMIT STATE			
ABUTMENT NO. 1	10.00	-73.00	43	256	125	88	45	11.00	84.00
WINGWALL NO. A	17.50	-73.00	50	262	98	68	12	18.50	91.50
WINGWALL NO. B	17.75	-73.00	50	262	98	68	12	18.75	91.75

PILE NOTES:

- PILE SPACING IS MEASURED ALONG CENTERLINE OF PILES.
- PRIOR TO DRIVING THE PILES, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL HIS METHOD AND SEQUENCE OF PILE DRIVING.
- PAY ITEM "DRIVING STEEL PILES" IS MEASURED FROM ACTUAL PILE TIP ELEVATION TO BOTTOM OF FOOTING.
- ESTIMATED FURNISHED LENGTH IS FROM ESTIMATED PILE TIP ELEVATION TO BOTTOM OF FOOTING PLUS 1 FT.
- CONTRACTOR SHALL SIZE HAMMER BASED ON ULTIMATE LOADS.
- ALL PILES SHALL BE DRIVEN TO REFUSAL IN BEDROCK.
- TEST PILES INDICATED ON THE PLANS SHALL BE USED TO VERIFY DRIVEN LENGTHS AND DRIVING CRITERIA. DYNAMIC PILE DRIVING ANALYSIS (PDA) TEST SHALL BE PERFORMED ON EACH TEST PILE. THE COST OF THE PILE LOADING TEST SHALL BE INCLUDED IN THE COST OF THE ITEMS "TEST PILE (STEEL HP 12 x 84 - 90' LONG)" AND "TEST PILE (STEEL HP 12 x 84 - 85' LONG)". THE COST OF THE (PDA) TEST SHALL BE INCLUDED IN THE COST OF THE ITEM "DYNAMIC PILE DRIVING ANALYSIS (PDA) TEST".
- PILES SHALL BE PRE-AUGERED TO ELEVATION -20.00.
- ALL BUT THE BOTTOM 20 FEET OF STEEL H-PILE SHALL BE COATED WITH BITUMINOUS COATING FOR STEEL PILES.
- PILE ORDER LENGTHS WILL BE ESTABLISHED UPON COMPLETION OF THE TEST PILES. ESTIMATED FURNISHED LENGTHS SHOULD NOT BE USED AS ORDER LENGTHS.

LEGEND

 DENOTES VERTICAL STEEL PILE


 DENOTES TEST PILE (HP 12 x 84, 90' LONG)

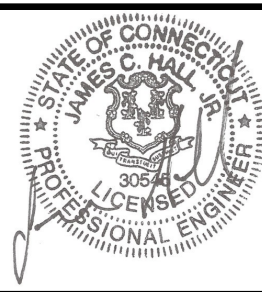
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

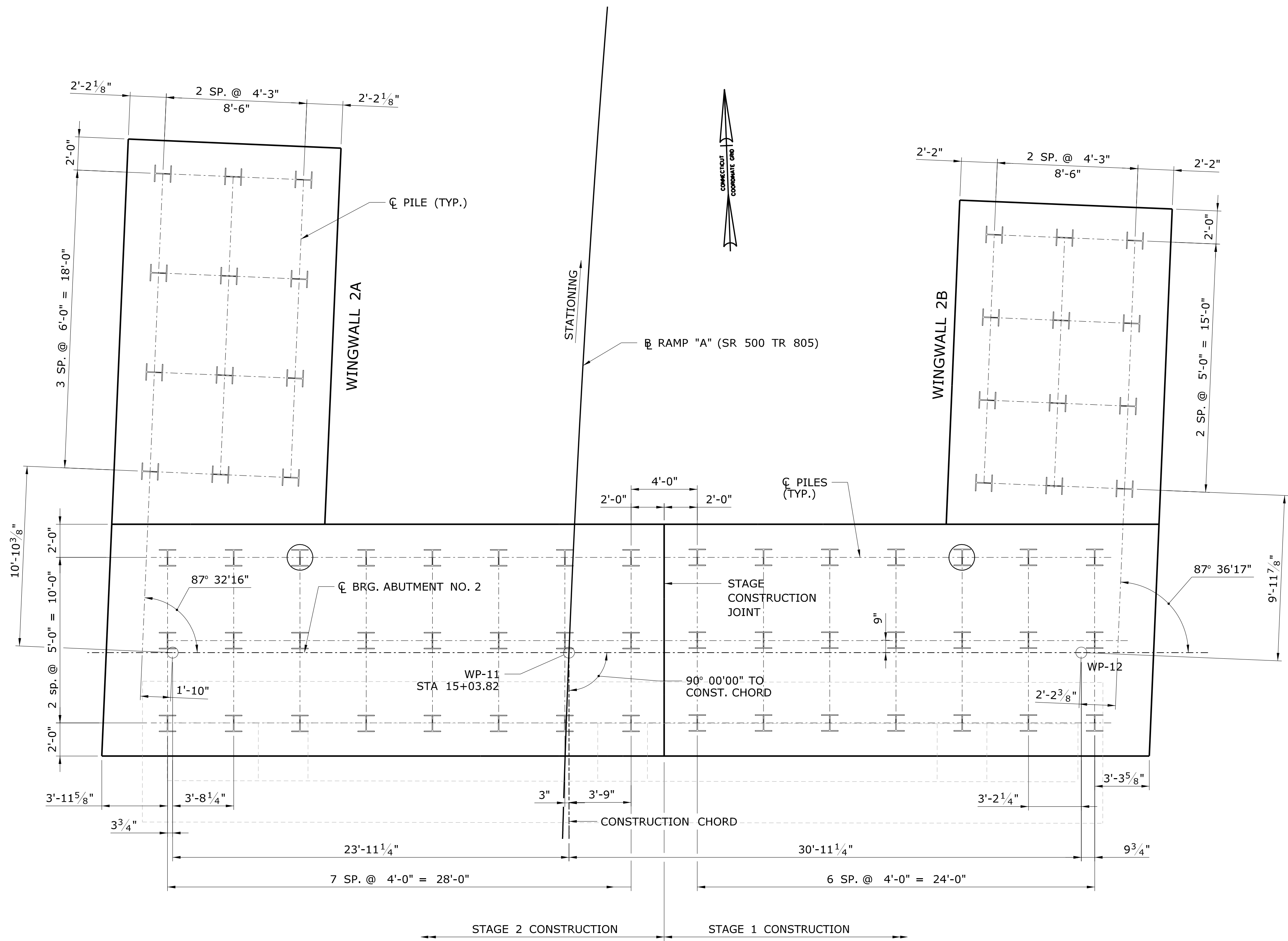
**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br02374_14ABUT1_FPN.dgn

SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833

TOWN:
EAST HARTFORD
DRAWING TITLE:
ABUTMENT NO. 1
FOUNDATION LAYOUT

PROJECT NO.
042-304
DRAWING NO.
S-14
SHEET NO.
01.04.14





ABUTMENT NO. 2 PILE LAYOUT PLAN
SCALE: 1/4" = 1'-0"

ABUTMENT NO. 2 PILE SCHEDULE									
LOCATION	BOTTOM OF FTG. ELEV. (BFE) (FT)	EST. PILE TIP ELEV. (FT)	UNFACTORED DOWNDRAG (KIPS)	ULTIMATE PILE CAPACITY (KIPS)	MAX. FACTORED AXIAL LOAD (KIPS)		NO. OF PILES PER FOOTING	PILE CUT-OFF ELEVATION (FT)	EST. FURNISHED LENGTH (FT)
					AASHTO STRENGTH I LIMIT STATE	AASHTO SERVICE I LIMIT STATE			
ABUTMENT NO. 2	8.00	-68.00	43	256	125	88	45	9.00	77.00
WINGWALL NO. 2A	16.00	-68.00	50	262	98	68	12	17.00	85.00
WINGWALL NO. 2B	16.25	-68.00	50	262	98	68	12	17.00	85.25

NOTES:

1. FOR PILE NOTES, SEE DWG. NO. S-14.

LEGEND

-  DENOTES VERTICAL STEEL PILE
-  DENOTES TEST PILE (HP 12 x 84, 85' LONG)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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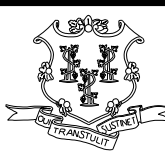
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.


Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD

CHECKED BY:
JCH

SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION



Filename: ...\\SB_MSH_Br02374-15ABUT2_FPN.dgn

SIGNATURE/
BLOCK:



McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:

**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:

EAST HARTFORD

DRAWING TITLE:

**ABUTMENT NO. 2
FOUNDATION LAYOUT**

PROJECT NO.

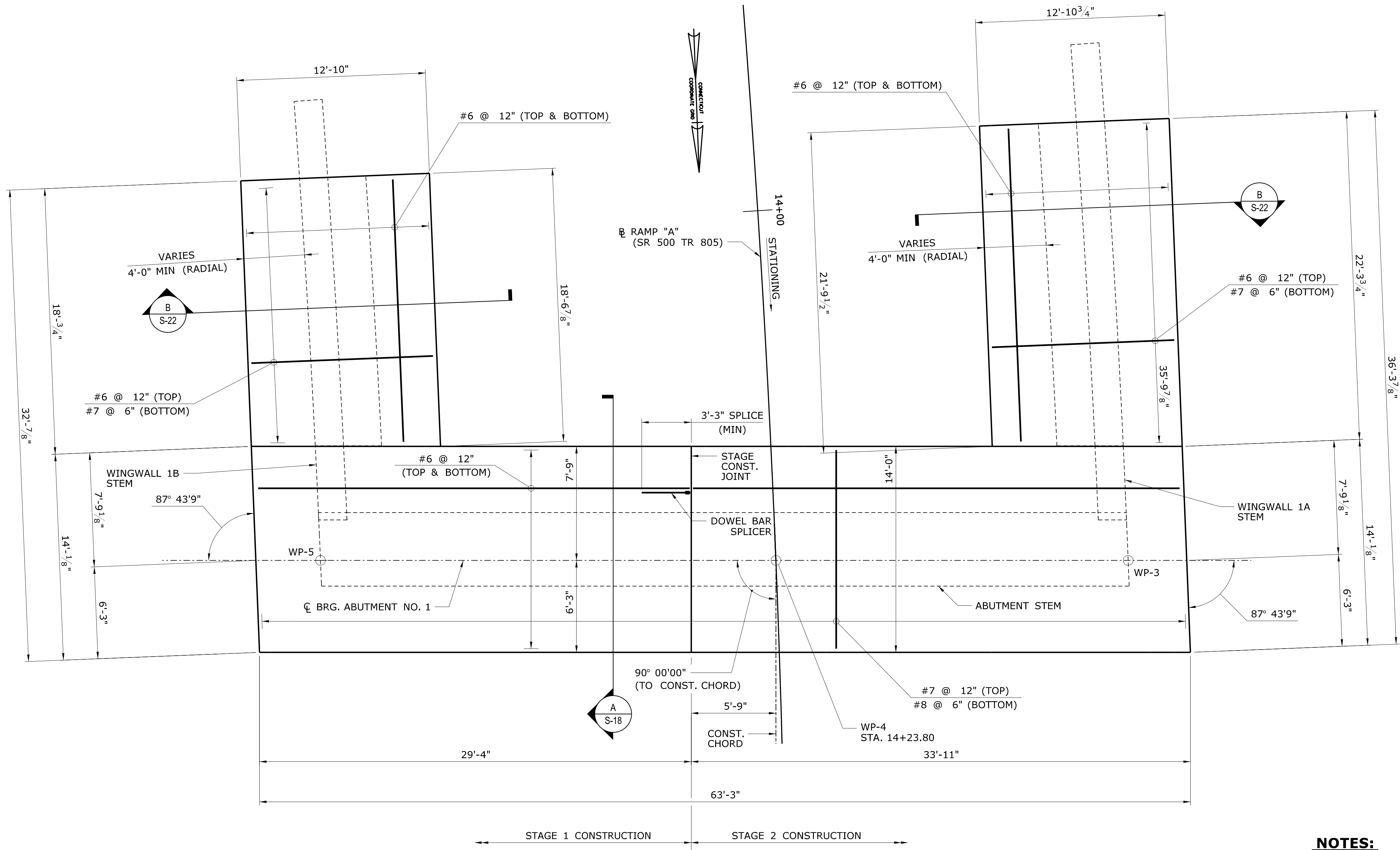
042-304

DRAWING NO.

S-15

SHEET NO.

01.04.15



ABUTMENT NO. 1 FOOTING PLAN
SCALE: 1/4" = 1'-0"

NOTES:


1. FOR FOOTING CONCRETE AND REINFORCEMENT NOTES, SEE DWG. "GENERAL PLAN AND ELEVATION".


REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER: SFD
CHECKED BY: JCH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION



Filename: ...\\SB_MSH_Br02374-16ABUT1_FTG.dgn

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BLOCK:



McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:

**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:

EAST HARTFORD

DRAWING TITLE:

**ABUTMENT NO. 1
FOOTING PLAN**

PROJECT NO.

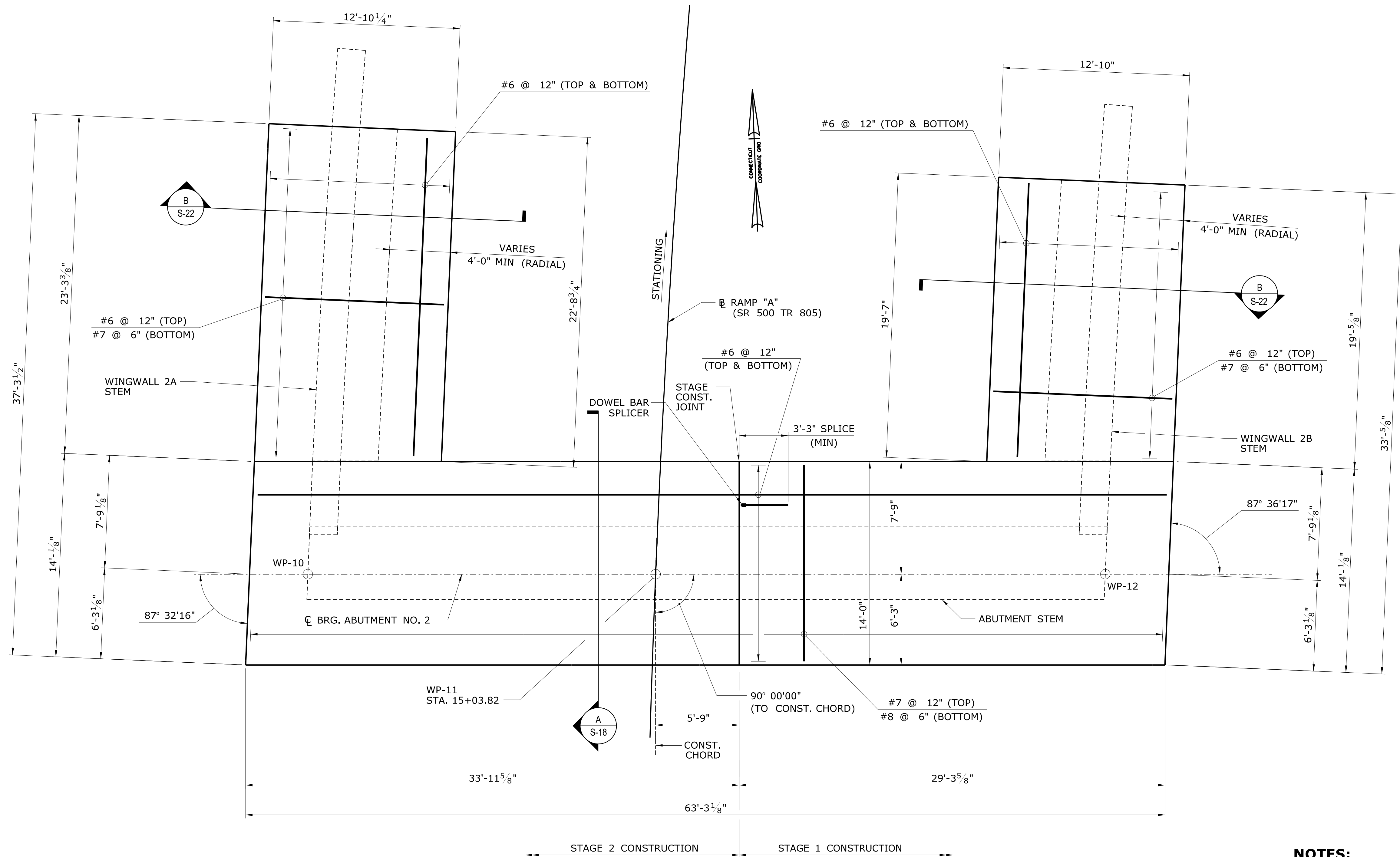
042-304

DRAWING NO.

S-16

SHEET NO.

01.04.16



ABUTMENT NO. 2 FOOTING PLAN

SCALE: 1/4" = 1'-0"


NOTES:

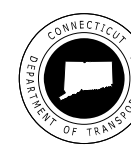
1. FOR FOOTING CONCRETE AND REINFORCEMENT NOTES, SEE DWG. "GENERAL PLAN AND ELEVATION".

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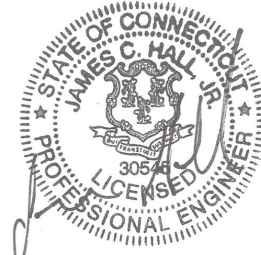
DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION



Filename: ...\\SB_MSH_Br02374_17ABUT2_FTG.dgn

SIGNATURE/
BLOCK:



McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

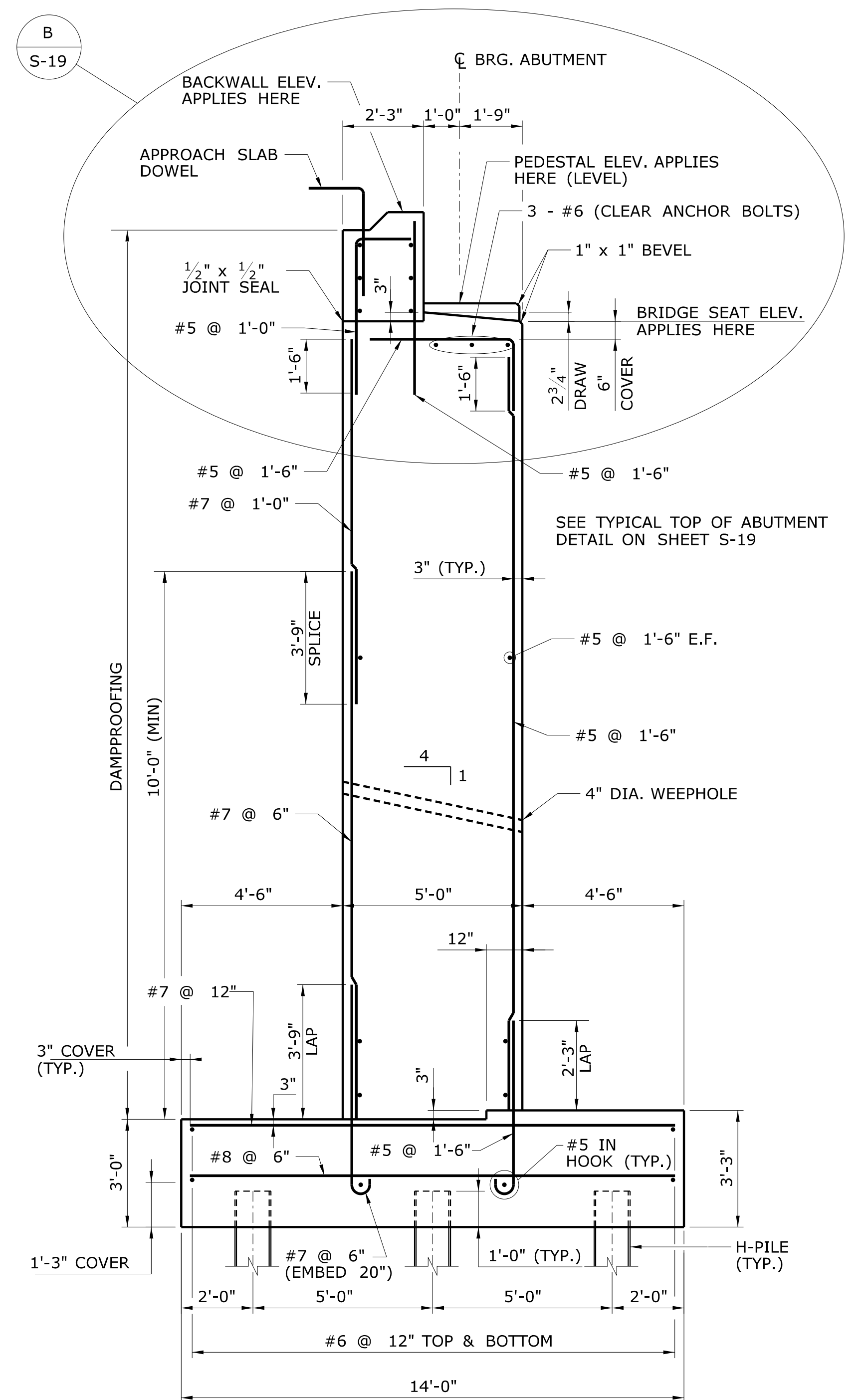
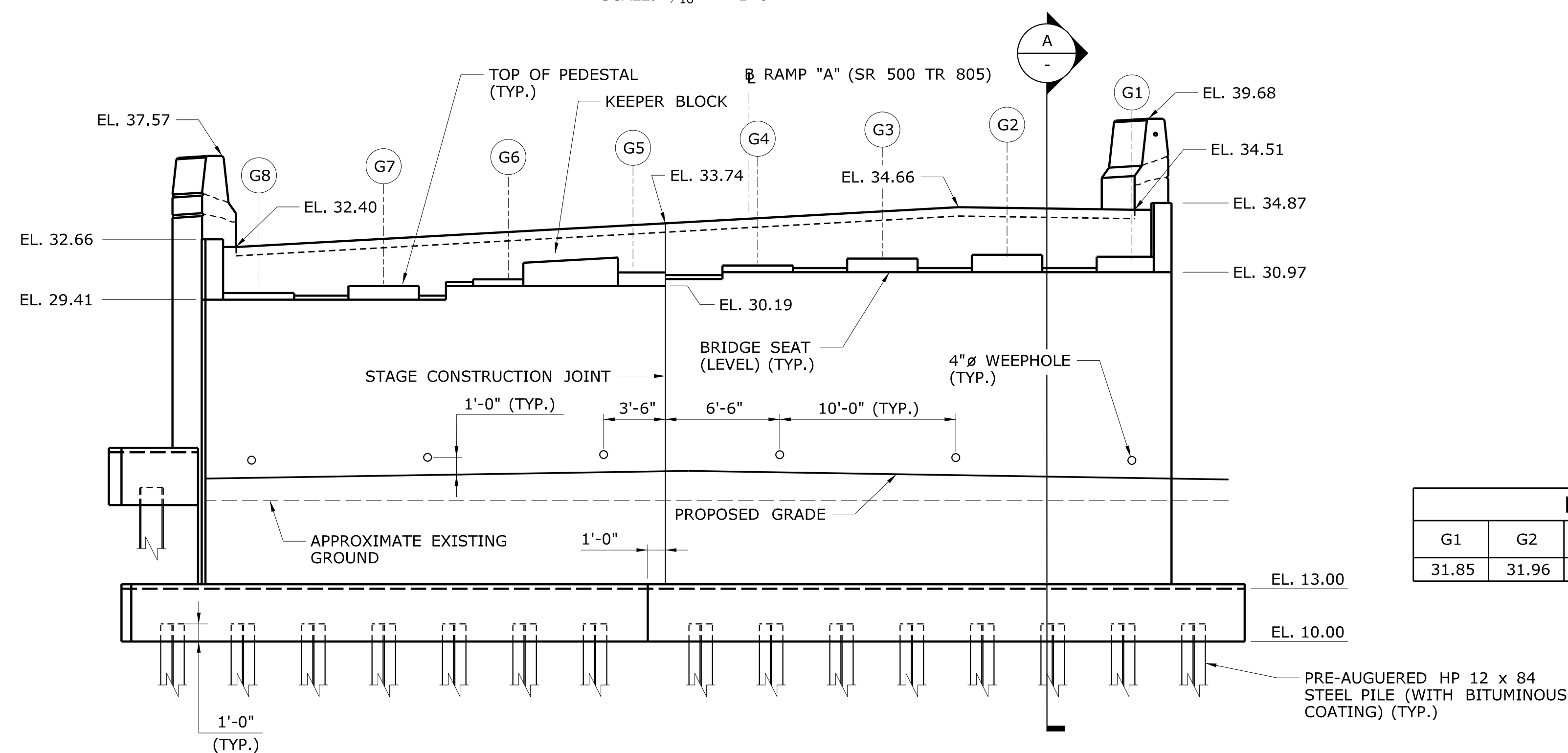
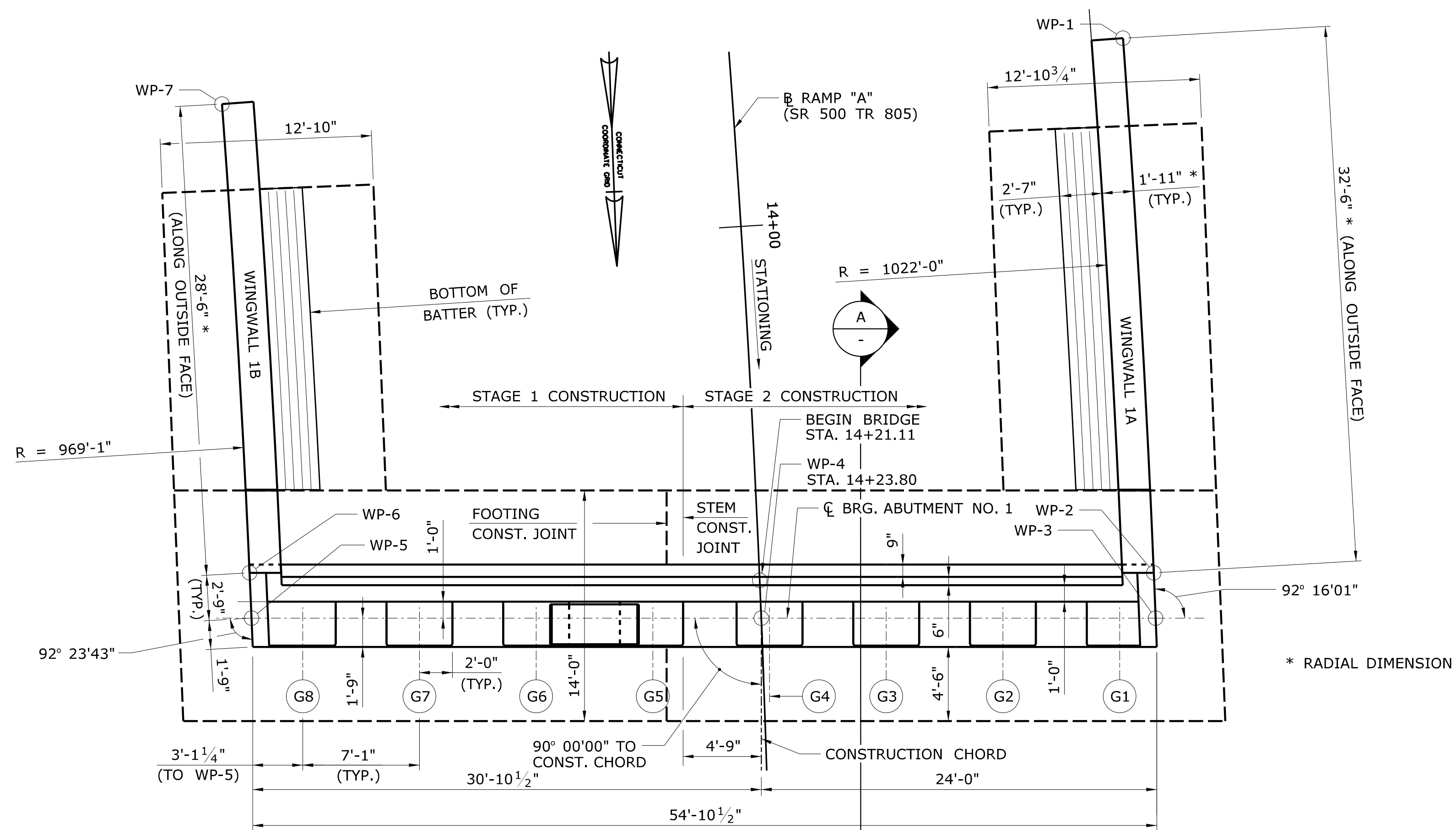
TOWN:
EAST HARTFORD

DRAWING TITLE:
**ABUTMENT NO. 2
FOOTING PLAN**

PROJECT NO.
042-304

DRAWING NO.
S-17

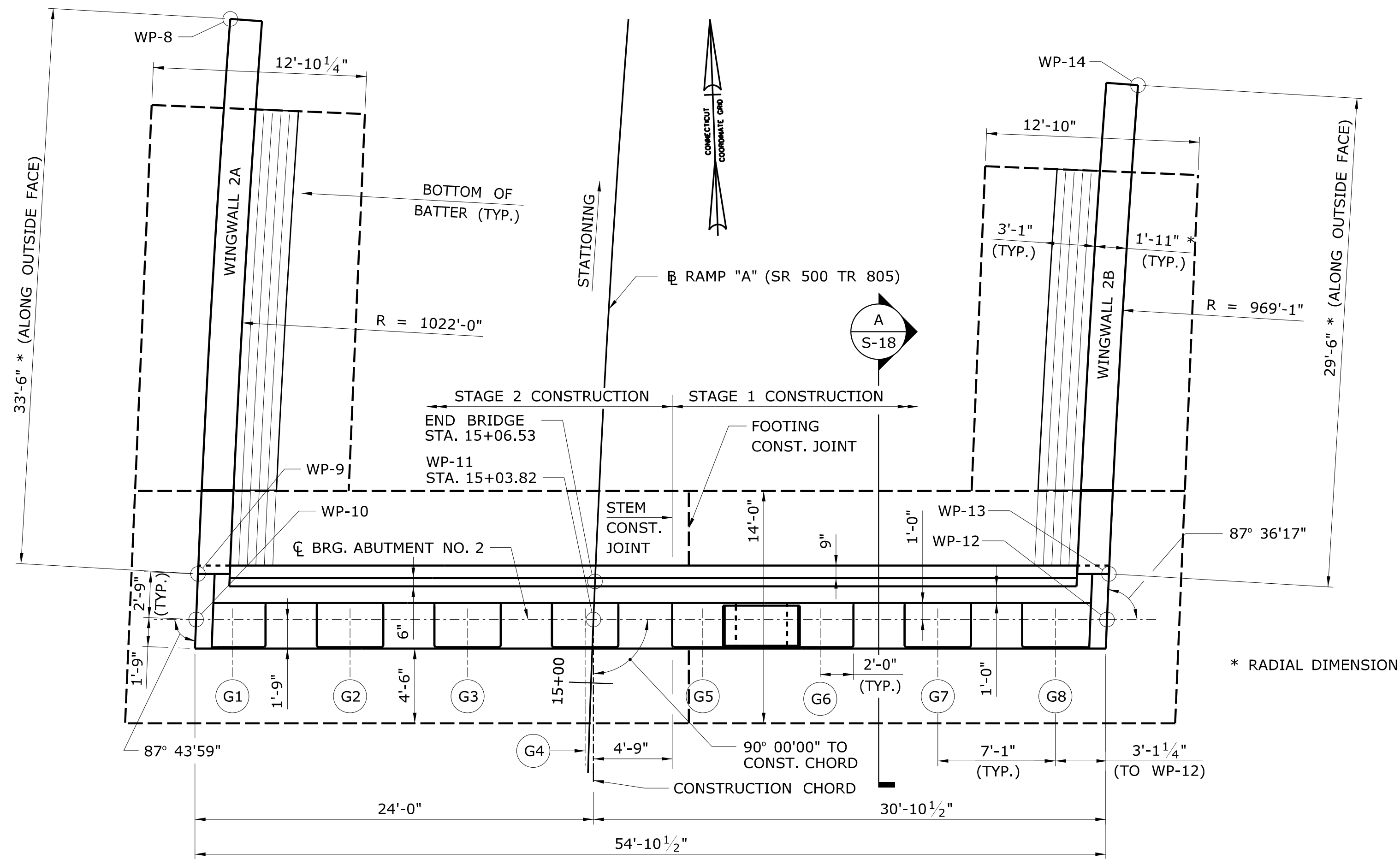
SHEET NO.
01.04.17



PEDESTAL ELEVATIONS							
G1	G2	G3	G4	G5	G6	G7	G8
31.85	31.96	31.73	31.34	30.95	30.56	30.17	29.78

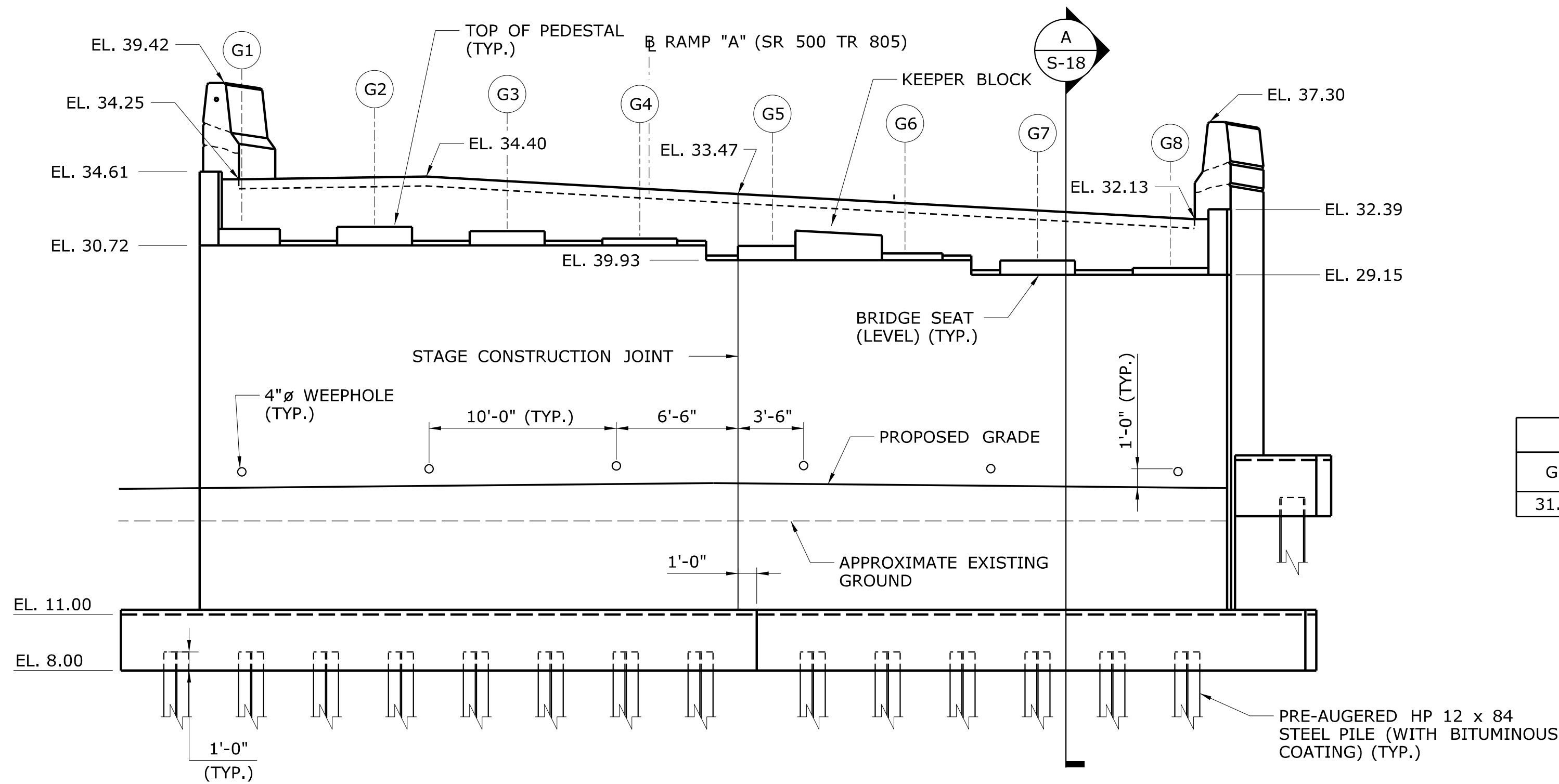
NOTE:
FOR SUBSTRUCTURE NOTES, SEE DWG. NO. S-19.

[illegible]



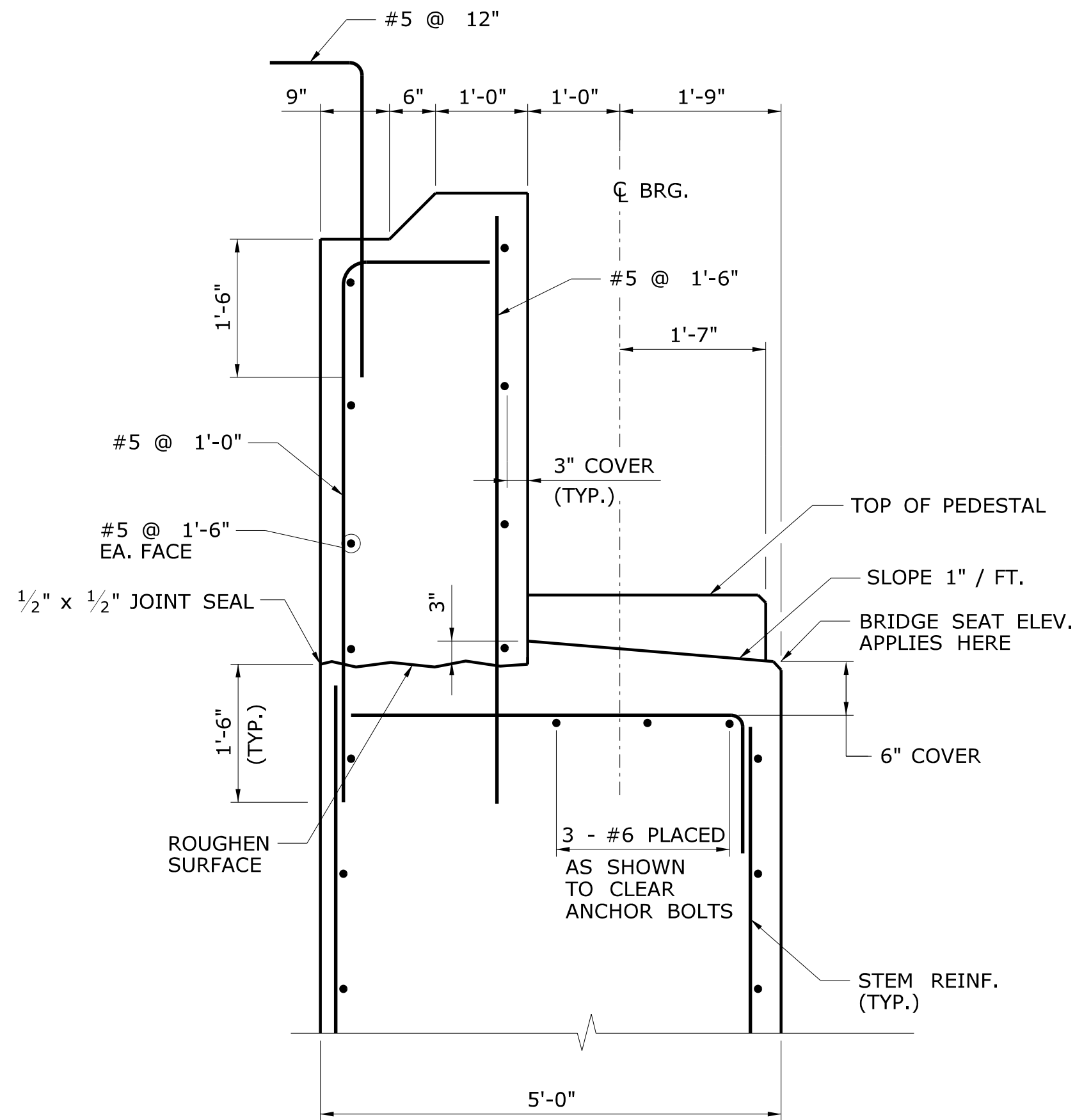
ABUTMENT NO. 2 PLAN

SCALE: 3/16" = 1'-0"



ABUTMENT NO. 2 ELEVATION

SCALE: 3/16" = 1'-0"



TYPICAL TOP OF ABUTMENT

SCALE: 3/4" = 1'-0"

B
S-18

SUBSTRUCTURE NOTES:

1. THE COST OF FURNISHING AND INSTALLING WEEPHOLES SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "CLASS 'A' CONCRETE".
2. FOR WORKING POINT COORDINATES, SEE DWG. NO. S-4.
3. FOR PILE PLAN AND FOOTING LAYOUT, SEE DWG. NO. S-14 AND DWG. NO. S-15.
4. FOR FOOTING REINFORCEMENT LAYOUT, SEE DWG. NO. S-16 AND DWG. NO. S-17.
5. FOR WINGWALL ELEVATIONS, SEE DWG. NO. S-21.
6. FOR VERTICAL STEM JOINT DETAIL, SEE DWG. NO. S-23.
7. FOR BEARING DETAILS, SEE DWG. NO. S-30.
8. FOR APPROACH SLAB DETAILS, SEE DWG. NO. S-29.
9. FOR SUBSTRUCTURE PAY LIMITS, SEE DWG. NO. S-23.
10. FOR PARAPET REINFORCEMENT DETAILS, SEE DWG. NO. S-31.
11. CONTRACTOR SHALL VERIFY WEEPHOLE INVERT ELEVATIONS IN THE FIELD.

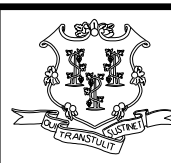
PEDESTAL ELEVATIONS							
G1	G2	G3	G4	G5	G6	G7	G8
31.61	31.71	31.48	31.09	30.70	30.31	29.92	29.53

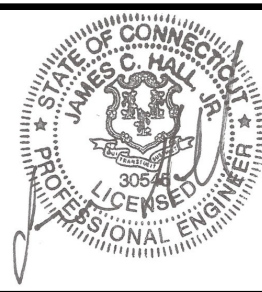
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

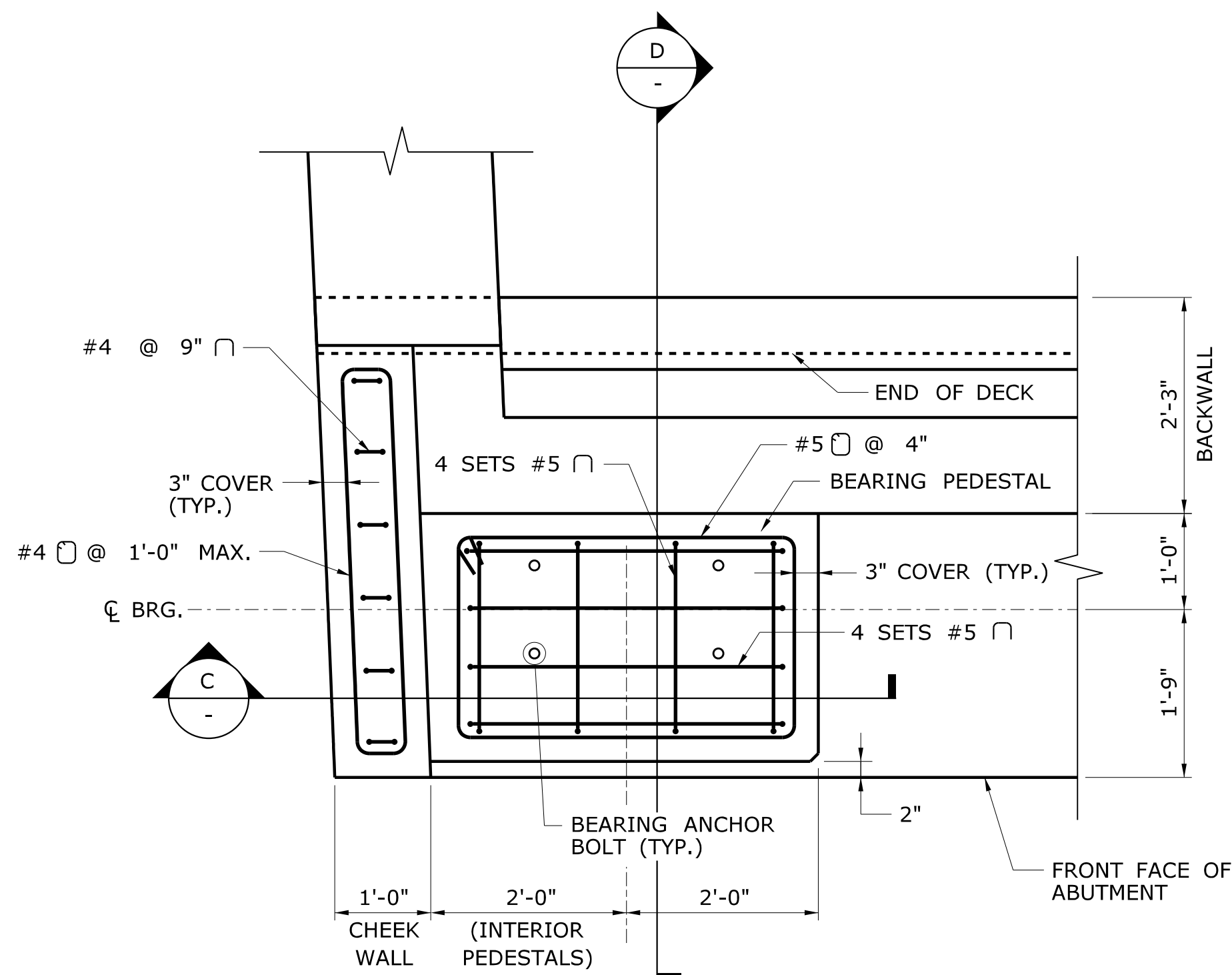
**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br02374-19ABUT2_MAS.dgn

SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833

TOWN:
EAST HARTFORD
DRAWING TITLE:
ABUTMENT NO. 2
PLAN AND ELEVATION

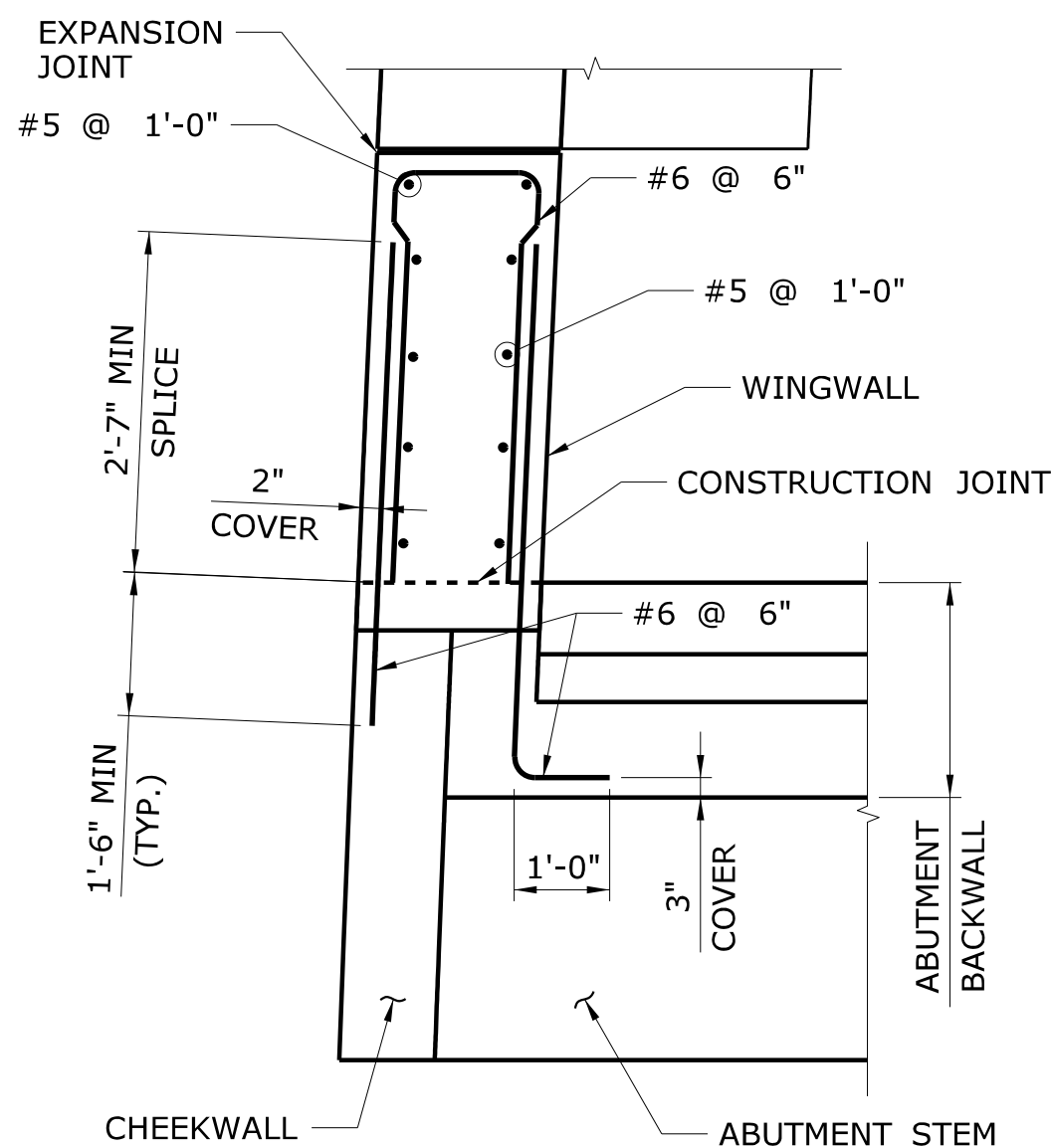
PROJECT NO.
042-304
DRAWING NO.
S-19
SHEET NO.
01.04.19



NOTE: EXTERIOR GIRDER BEARING PEDESTAL SHOWN,
INTERIOR GIRDER BEARING PEDESTAL TYPICAL

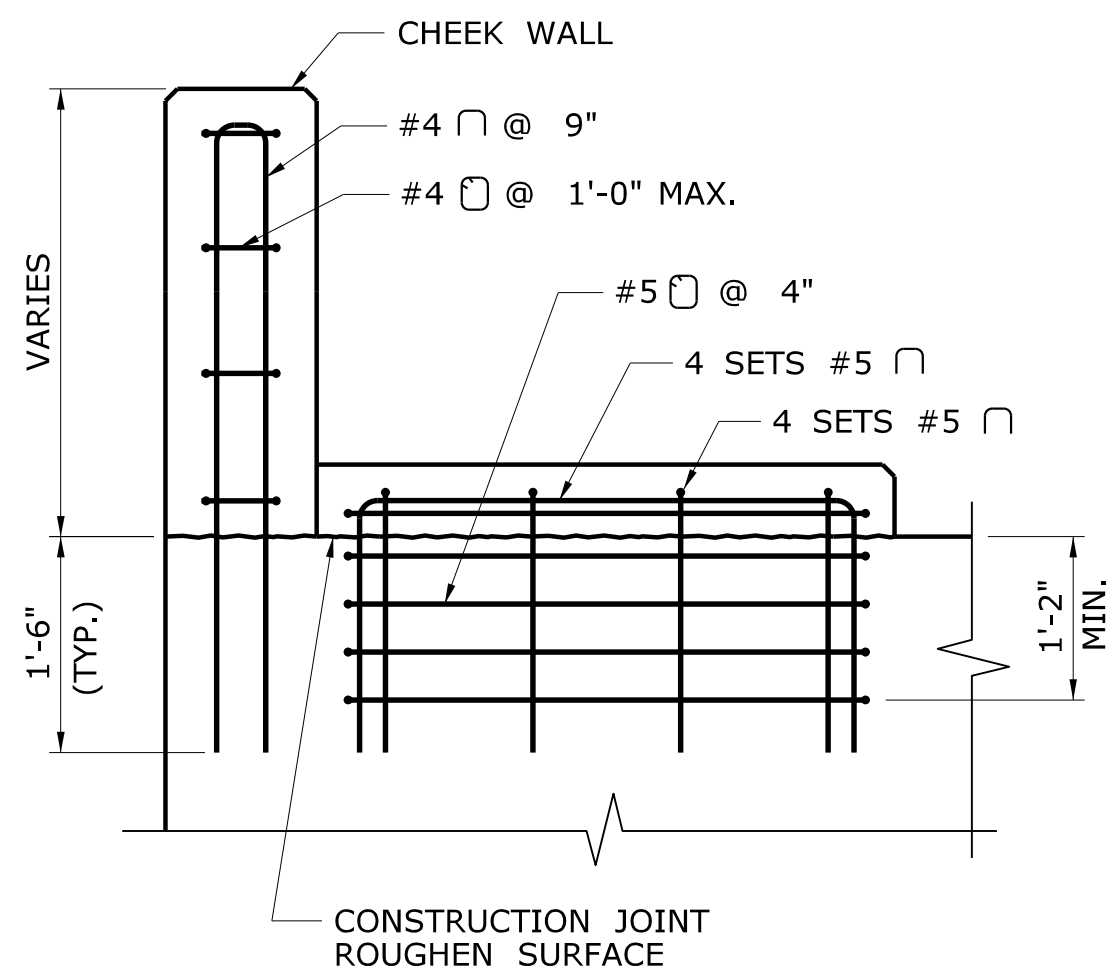
ABUTMENT CHEEKWALL AND BEARING PEDESTAL PLAN

SCALE: $\frac{3}{4}" = 1'-0"$



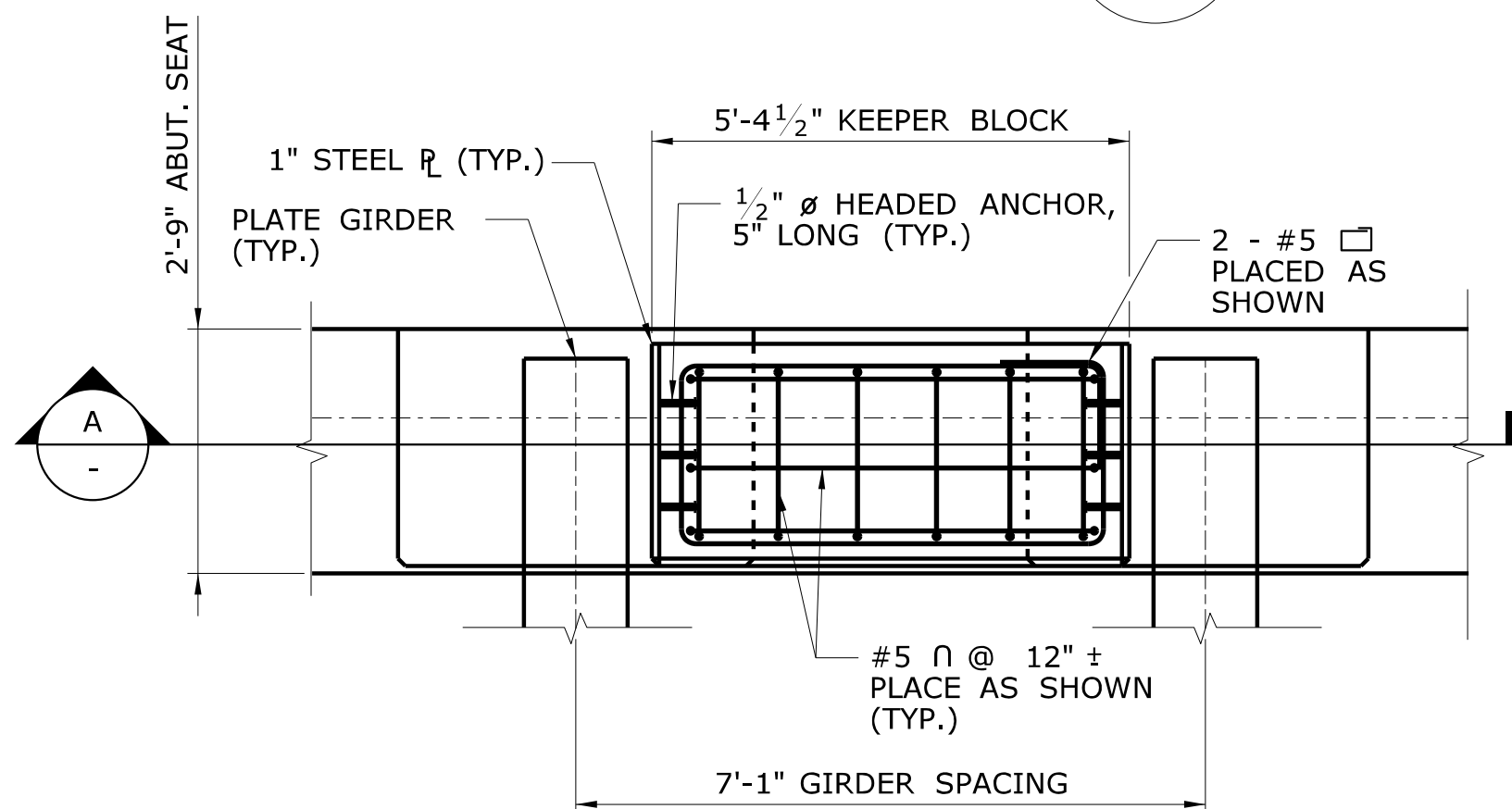
ABUTMENT CORNER REINFORCING DETAIL

SCALE: $\frac{1}{2}" = 1'-0"$



SECTION C

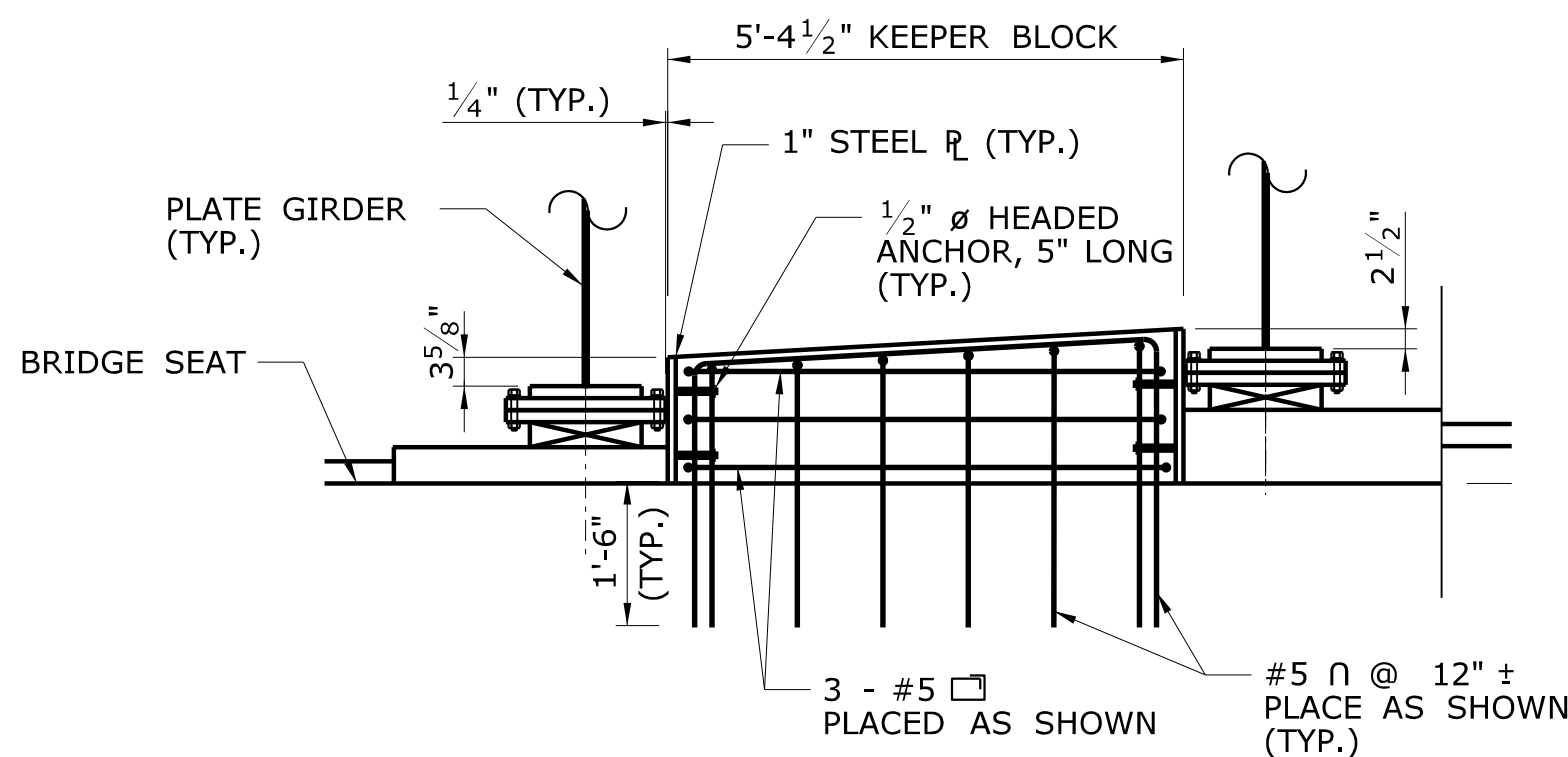
SCALE: $\frac{3}{4}" = 1'-0"$



KEEPER BLOCK AT ABUT. 1

PLAN

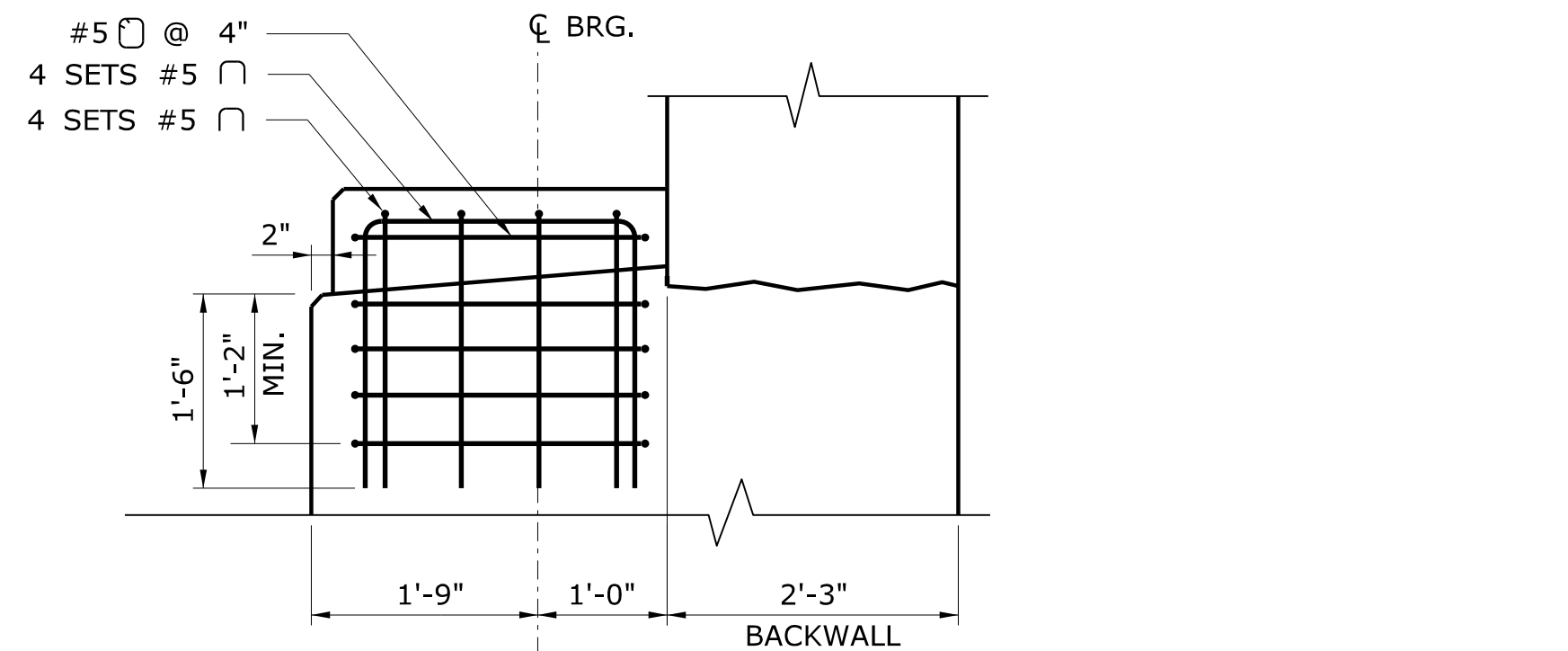
SCALE: $\frac{1}{2}" = 1'-0"$



NOTE: SEE DWG. "BEARING DETAILS"
FOR BEARING DIMENSIONS.

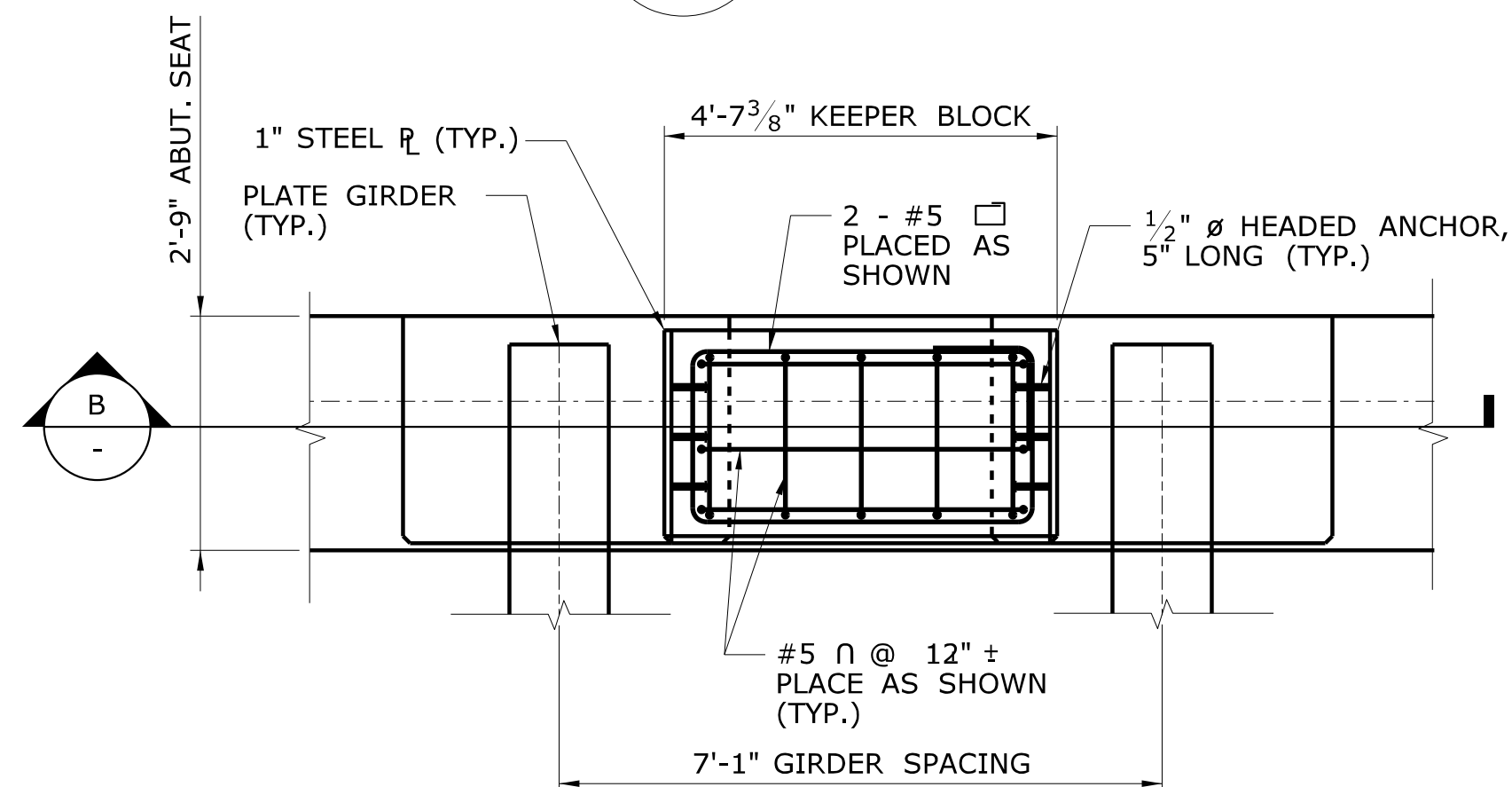
SECTION A

SCALE: $\frac{1}{2}" = 1'-0"$



SECTION D

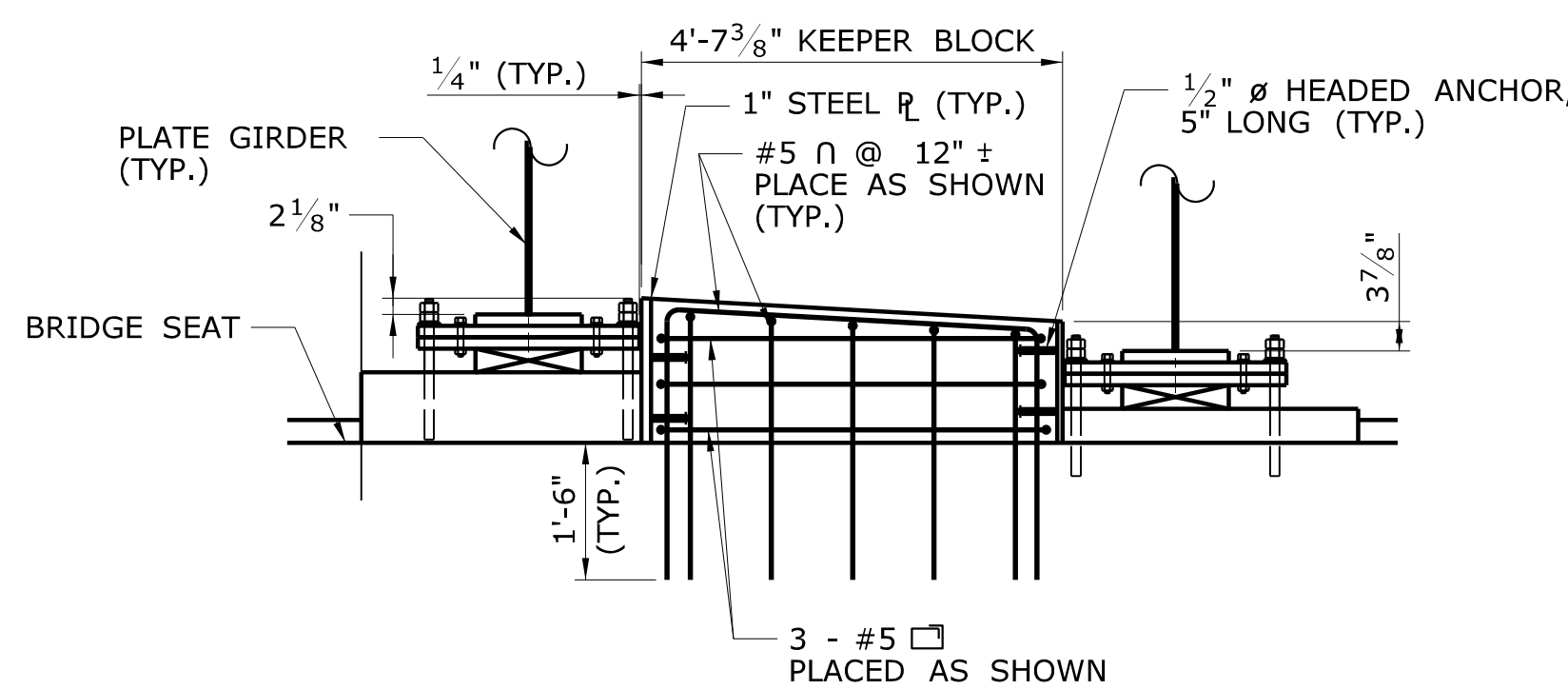
SCALE: $\frac{3}{4}" = 1'-0"$



KEEPER BLOCK AT ABUT. 2

PLAN

SCALE: $\frac{1}{2}" = 1'-0"$



NOTE: SEE DWG. "BEARING DETAILS"
FOR BEARING DIMENSIONS.

SECTION B


SCALE: $\frac{1}{2}" = 1'-0"$


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OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

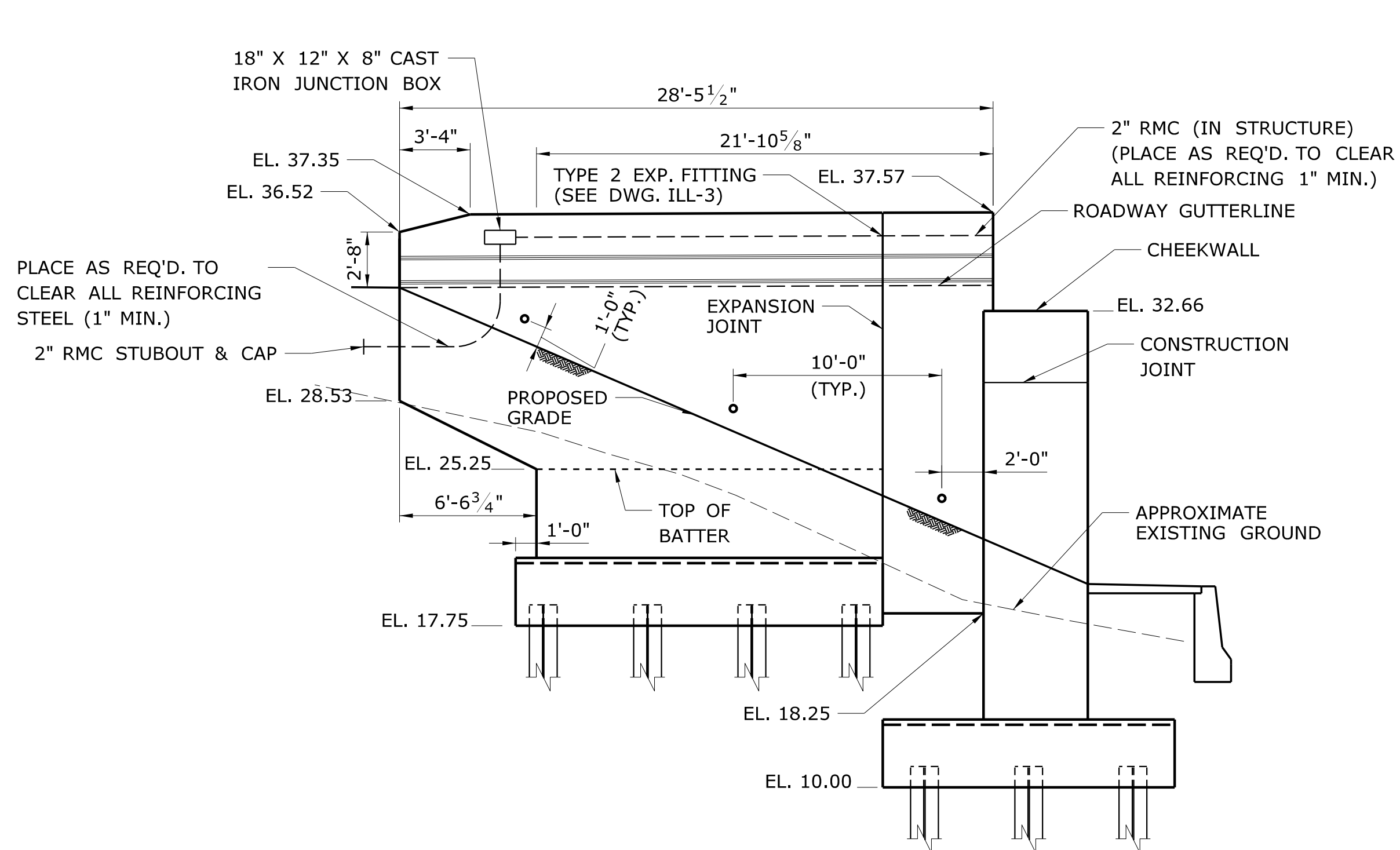
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DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br02374_20ABUT1_REBAR.dgn

SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

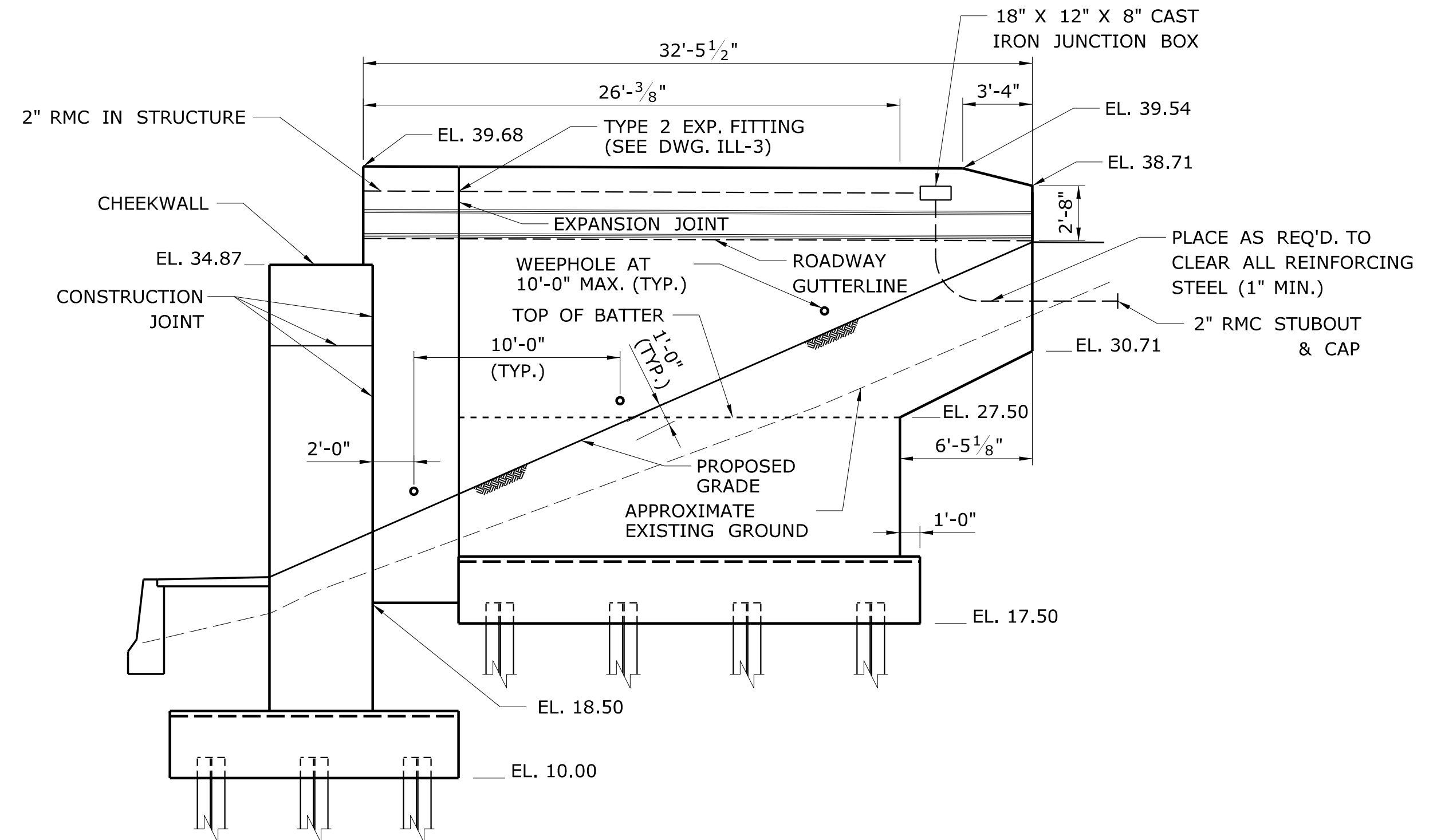
TOWN:
EAST HARTFORD
DRAWING TITLE:
**ABUTMENT
REINFORCEMENT DETAILS**

PROJECT NO.
042-304
DRAWING NO.
S-20
SHEET NO.
01.04.20



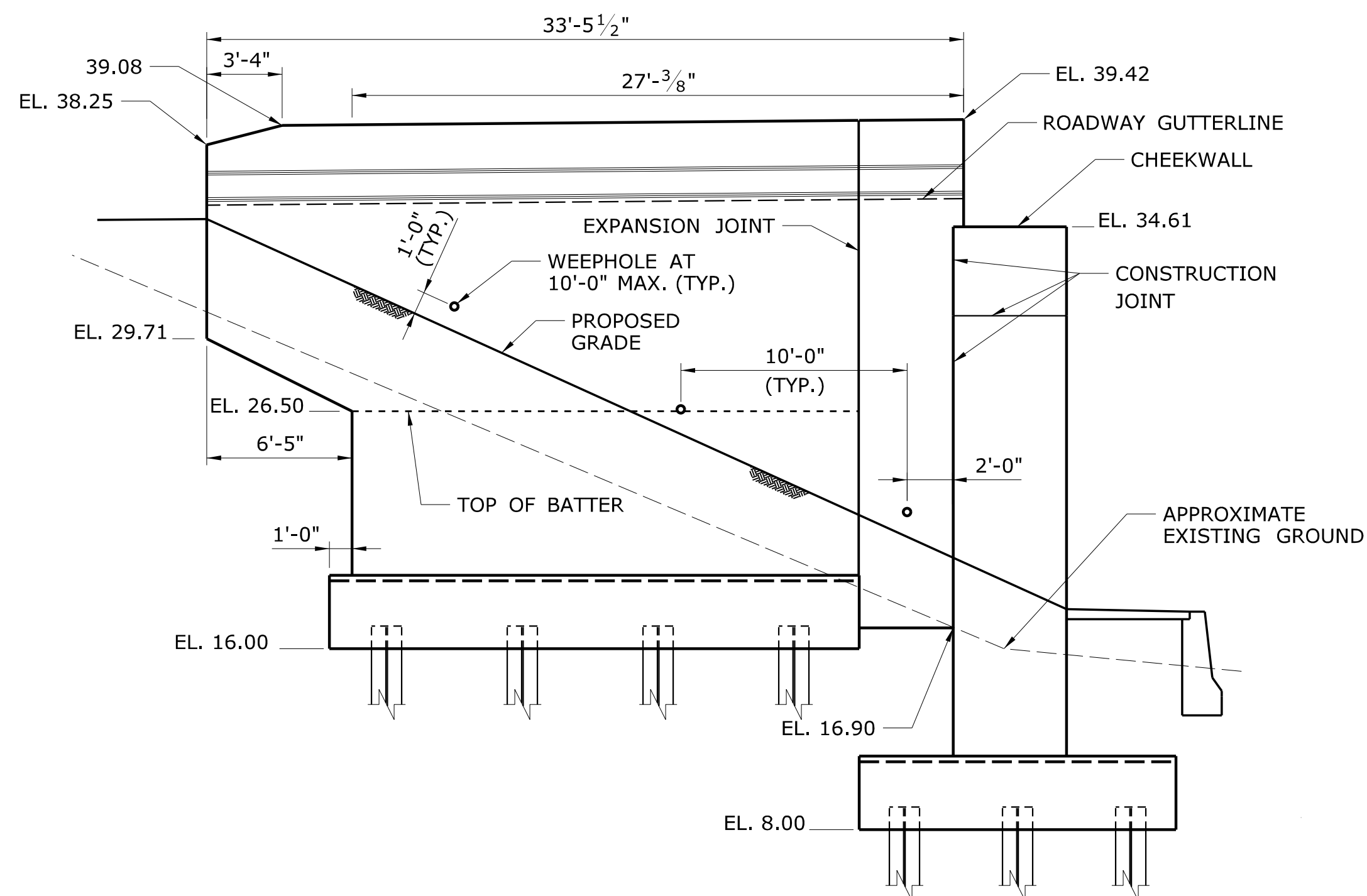
WINGWALL 1B ELEVATION

SCALE: 3/16" = 1'-0"



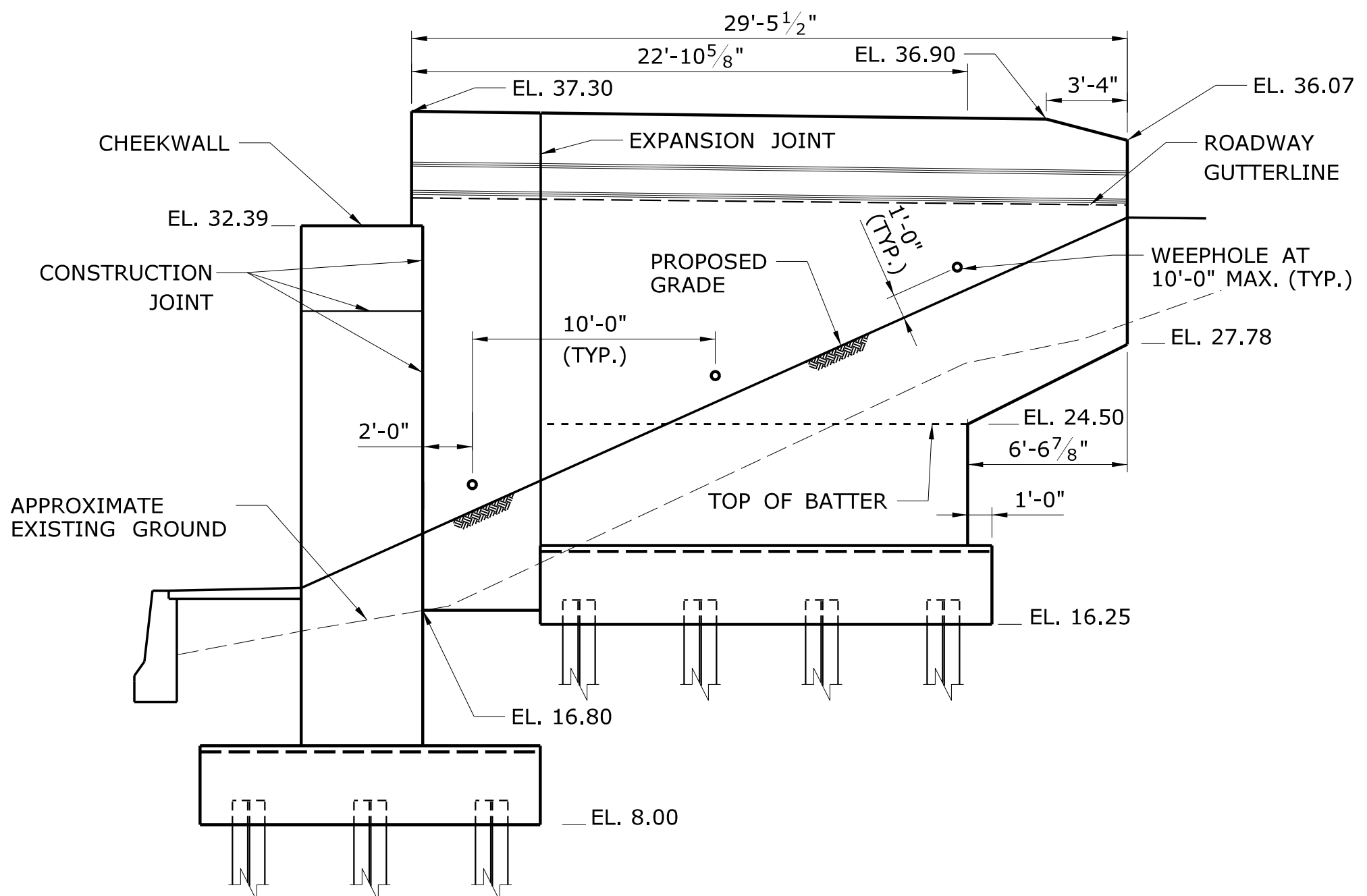
WINGWALL 1A ELEVATION

SCALE: 3/16" = 1'-0"



WINGWALL 2A ELEVATION

SCALE: 3/16" = 1'-0"



WINGWALL 2B ELEVATION

SCALE: 3/16" = 1'-0"

NOTES:

1. CONTRACTOR SHALL VERIFY WEEPHOLE INVERT ELEVATION IN THE FIELD.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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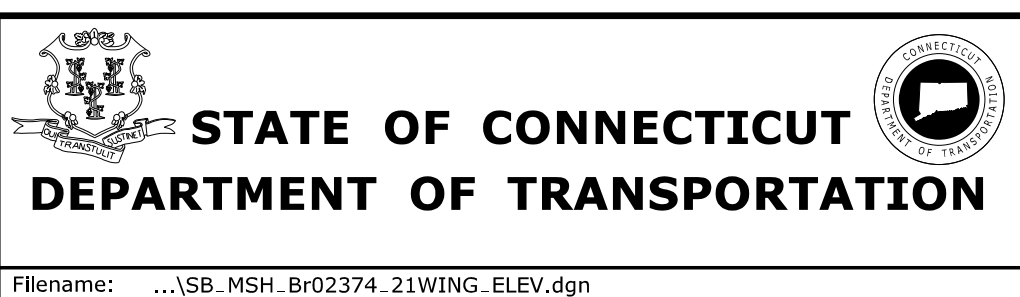
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
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CHECKED BY:
JCH

SCALE AS NOTED



SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:

**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

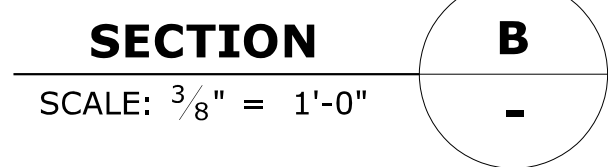
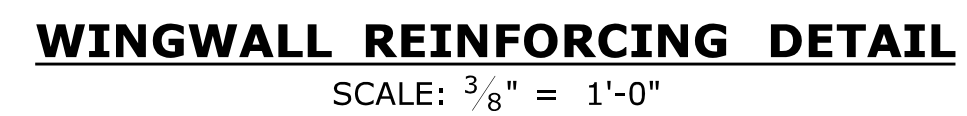
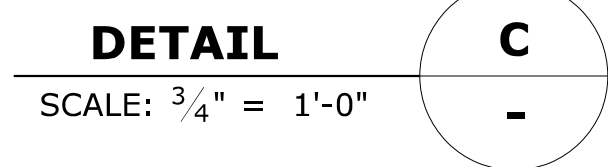
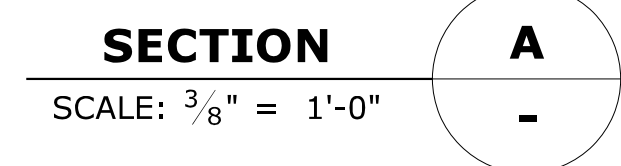
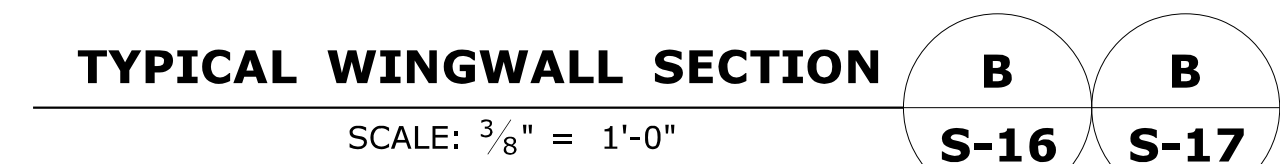
TOWN:
EAST HARTFORD

DRAWING TITLE:
WINGWALL ELEVATIONS

PROJECT NO.
042-304

DRAWING NO.
S-21

SHEET NO.
01.04.21



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Plotted Date: 11/20/2014

DATE: _____



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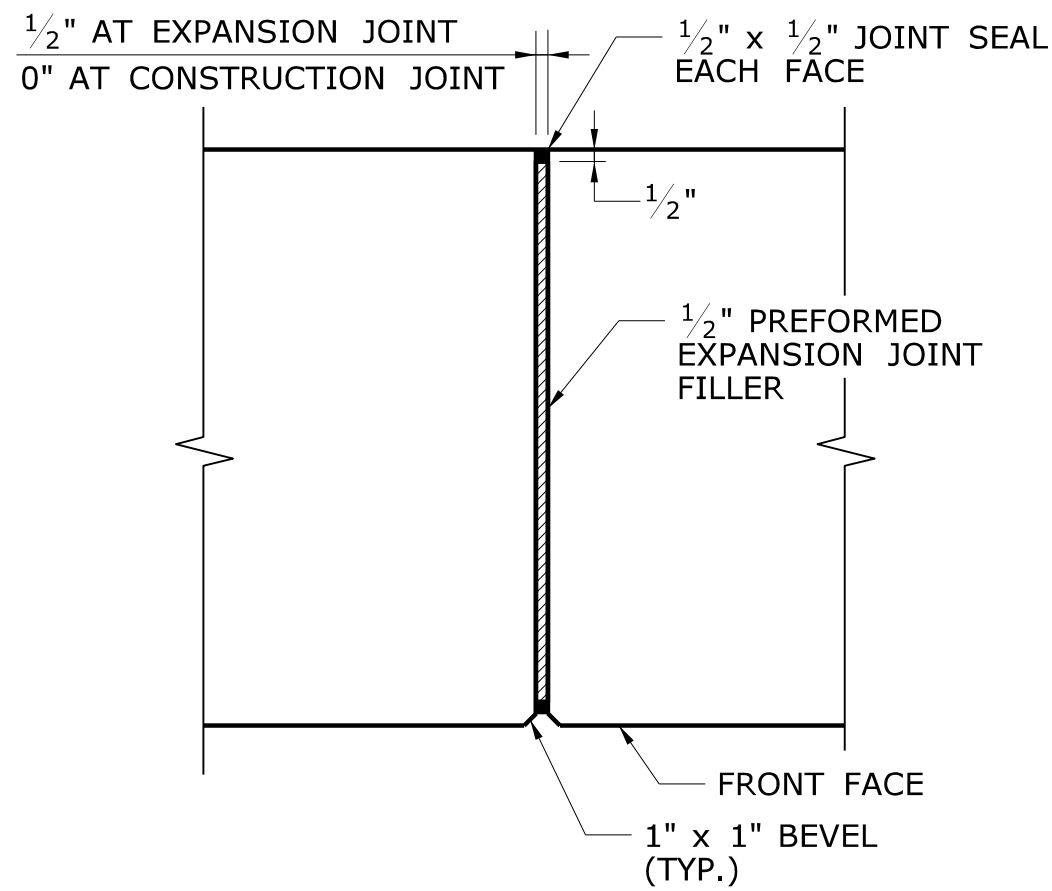


McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

WINGWALL DETAILS

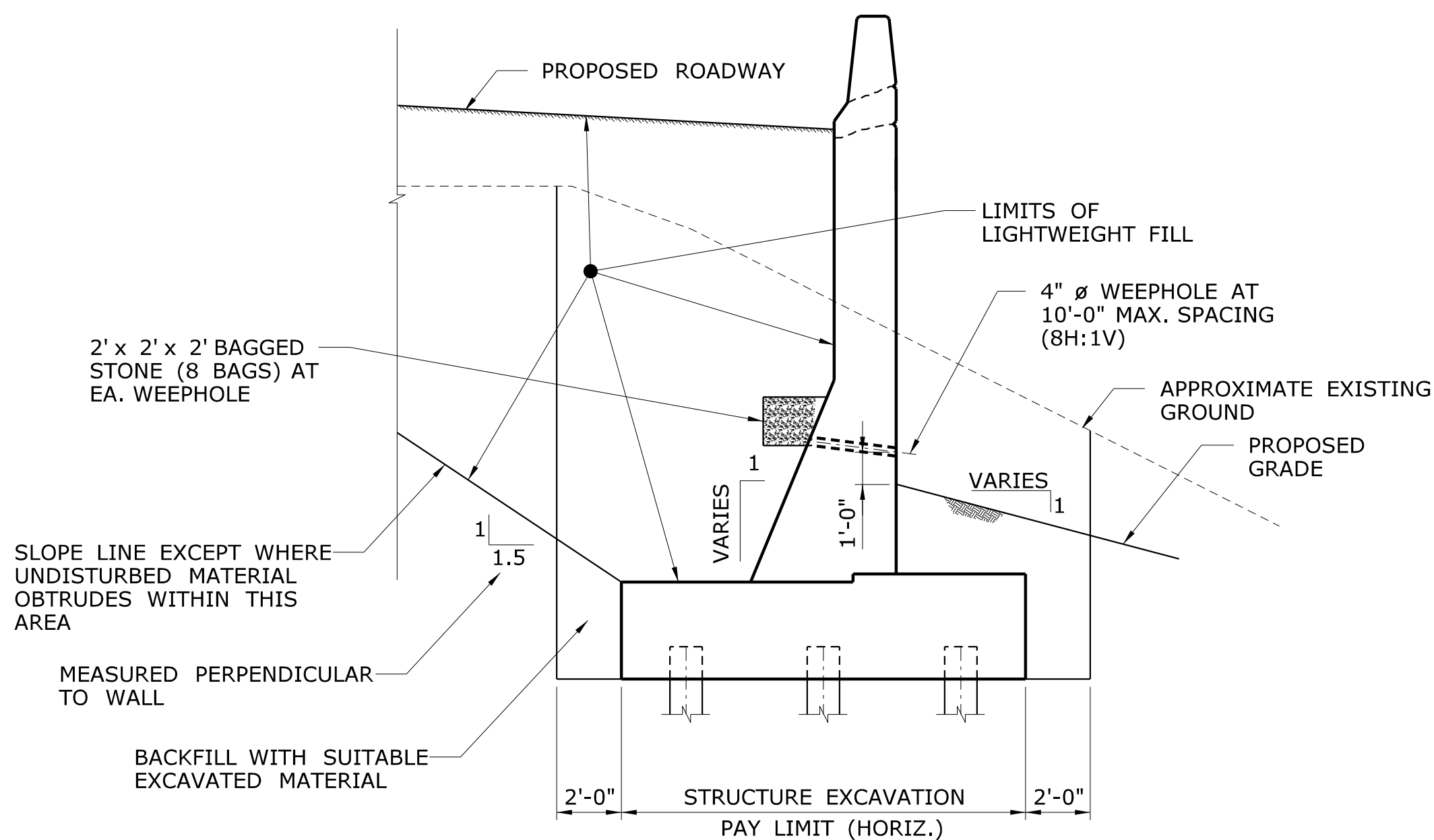
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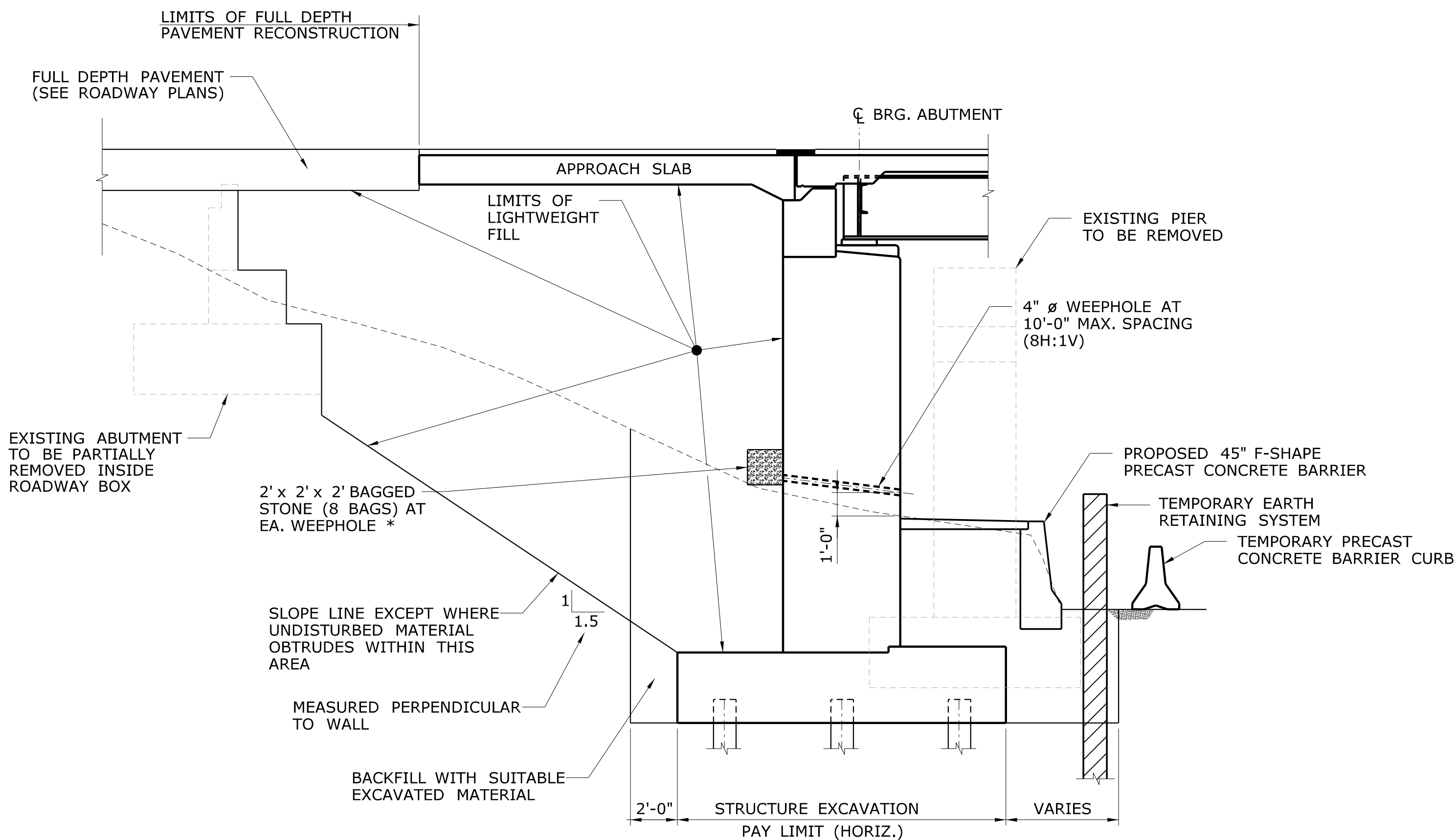
VERTICAL STEM JOINT DETAIL
NOT TO SCALE

VERTICAL STEM JOINT NOTES

1. JOINT SEAL SHALL BE INCLUDED IN ITEM "CLASS "A" CONCRETE"
2. ABUTMENTS - JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF BACKWALL AND HORIZONTALLY ALONG TOP OF BACKWALL.
3. WINGWALLS - JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF BACKWALL AND HORIZONTALLY ALONG TOP OF BACKWALL.
4. REINFORCEMENT - NO REINFORCEMENT SHALL PASS THROUGH EXPANSION OR CONTRACTION JOINTS.
5. REINFORCEMENT SHALL EXTEND THROUGH CONSTRUCTION JOINTS.



TYPICAL WINGWALL EARTHWORK SECTION
SCALE: 1/4" = 1'-0"



*SUBSIDIARY TO ITEM "LIGHTWEIGHT FILL"

TYPICAL ABUTMENT EARTHWORK SECTION
SCALE: 1/4" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MSH_Br02374-23SUB.DTLS1.dgn

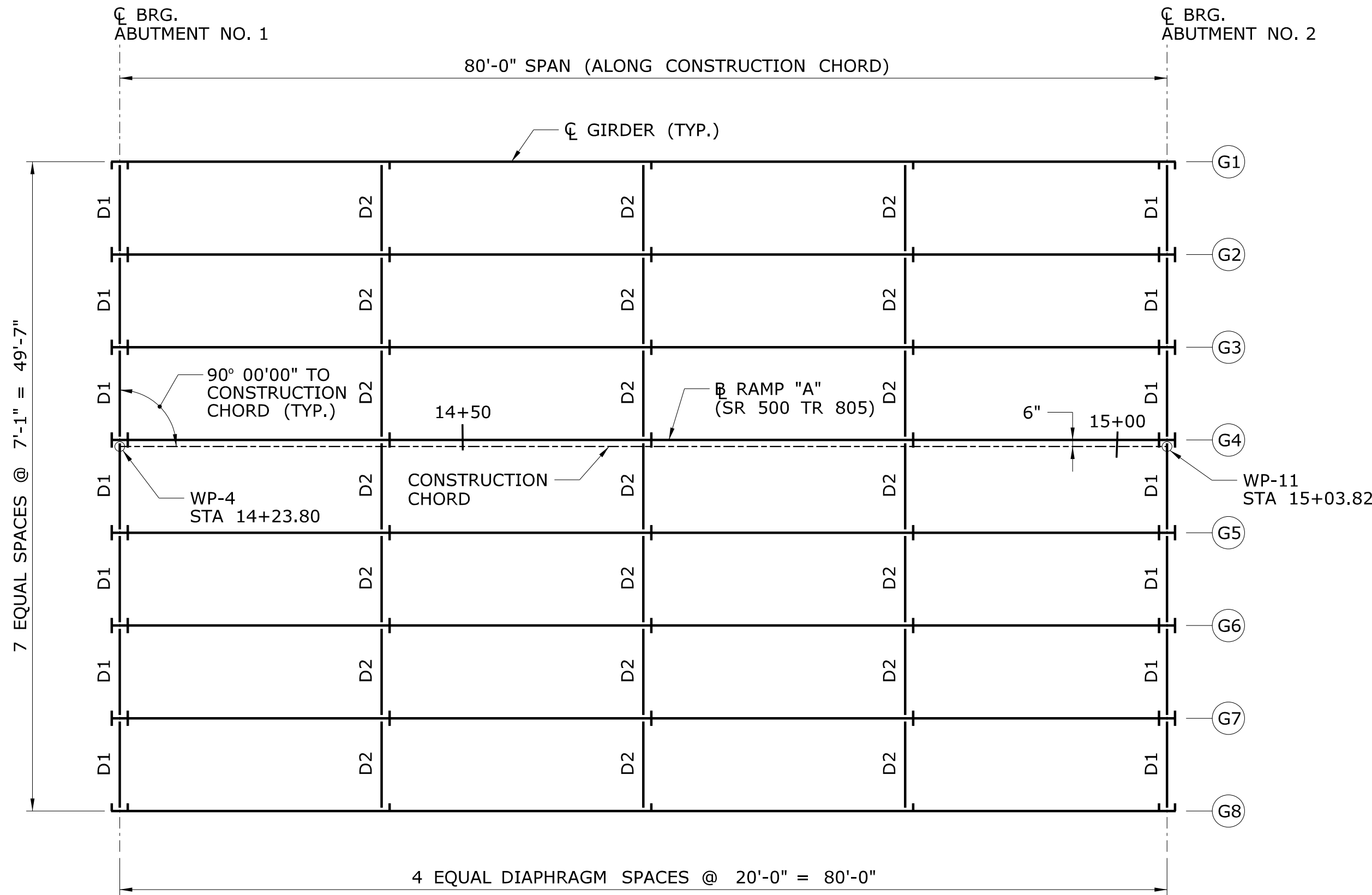
SIGNATURE/
BLOCK:

McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

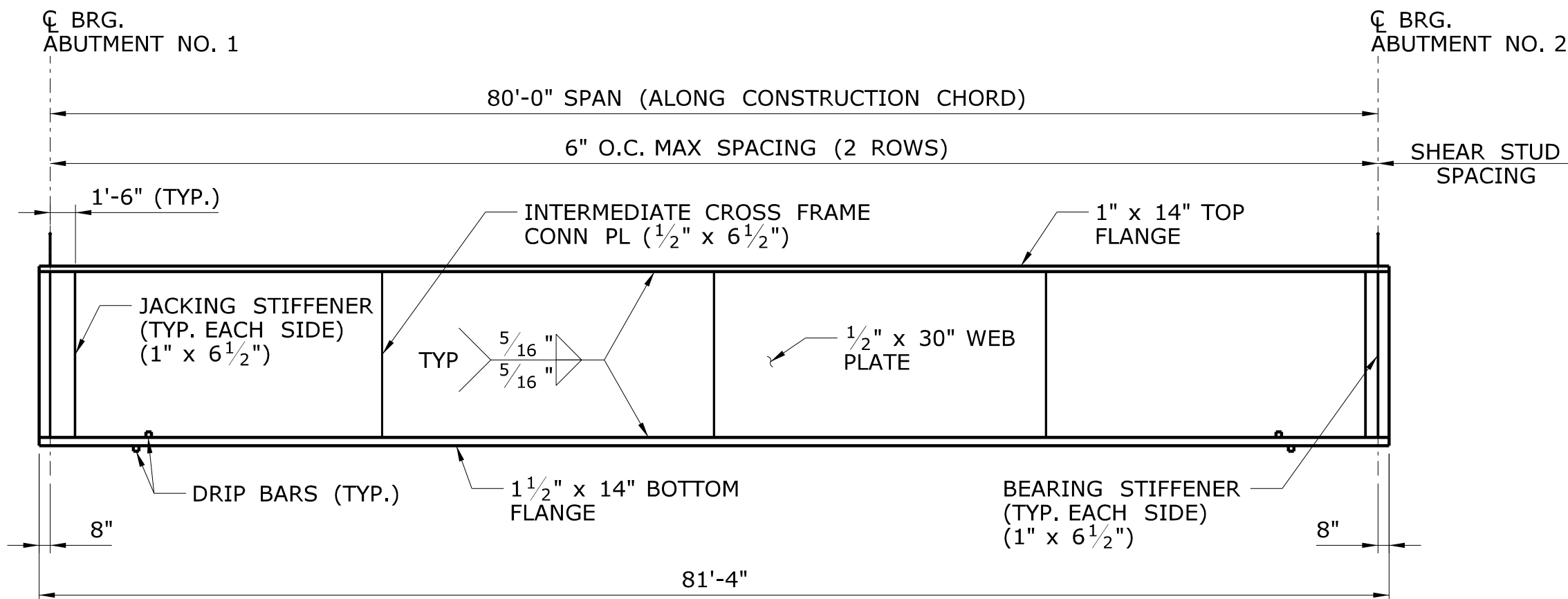
PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:
EAST HARTFORD
DRAWING TITLE:
**MISCELLANEOUS
SUBSTRUCTURE DETAILS**

PROJECT NO.
042-304
DRAWING NO.
S-23
SHEET NO.
01.04.23



FRAMING PLAN
SCALE: 1/8" = 1'-0"



GIRDER ELEVATION
NOT TO SCALE

CAMBER NOTES:

- STRUCTURAL STEEL DEAD LOAD DEFLECTION INCLUDES WEIGHT OF GIRDERS AND DIAPHRAGMS.
- ADDITIONAL DEAD LOAD DEFLECTION INCLUDES WEIGHT OF UNCURED CONCRETE SLAB, HAUNCH, AND STAY-IN-PLACE FORMS WHERE APPLICABLE.
- COMPOSITE DEAD LOAD DEFLECTION INCLUDES PARAPETS, AND BITUMINOUS CONCRETE WEARING SURFACE.
- CAMBER DUE TO VERTICAL CURVE ORDINATE IS THE CAMBER REQUIRED FOR THE GIRDER TO FOLLOW THE ROADWAY VERTICAL CURVE.
- THE TOTAL CAMBER IS EQUAL TO THE SUMMATION OF ALL CALCULATED CAMBERS AND IS THE DIMENSION TO WHICH THE MEMBER IS TO BE FABRICATED.
- SAY-IN-PLACE FORMS ASSUMED TO WEIGH 5 PSF.

DEAD LOAD DEFLECTION AND CAMBER TABLE							
DL DEFLECTION AT MIDSPAN (IN)				CAMBER AT MIDSPAN (IN)			
GIRDER ID	STEEL DL	ADD'L DL	COMPOSITE DL	TOTAL DL DEFLECTION	VERT CURVE ORDINATE	EXTRA CAMBER	TOTAL CAMBER
G1	0.62	2.56	0.73	3.90	1.03	0.00	4.93
G2	0.64	2.65	0.70	3.99	1.05	0.00	5.04
G3	0.64	2.65	0.70	3.99	1.06	0.00	5.05
G4	0.64	2.65	0.70	3.99	1.08	0.00	5.06
G5	0.64	2.65	0.70	3.99	1.09	0.00	5.08
G6	0.64	2.65	0.70	3.99	1.11	0.00	5.10
G7	0.64	2.65	0.70	3.99	1.12	0.00	5.11
G8	0.62	2.56	0.73	3.90	1.14	0.00	5.04

FUTURE JACKING DESIGN DATA (UNFACTORED GIRDER REACTIONS IN KIPS)				
GIRDER	ABUTMENT 1		ABUTMENT 2	
	DL	LL+I	DL	LL+I
G1	55	70	55	70
G2	60	85	60	85
G3	60	85	60	85
G4	60	85	60	85
G5	60	85	60	85
G6	60	85	60	85
G7	60	85	60	85
G8	55	70	55	70

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL (LOW ALLOY) SHALL CONFORM TO AASHTO M270, GRADE 50WT2.
- WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO ANSI/AASHTO/AWS D1.5-(2012) - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
- FIELD SPLICES WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO THE SUBMISSION OF SHOP PLANS. IF ALLOWED, THESE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPLICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO EXTRA EXPENSE TO THE STATE.
- ALL WEB TO FLANGE, WEB TO BEARING STIFFENER AND BEARING STIFFENER TO FLANGE FILLET WELDS SHALL BE INSPECTED IN THEIR ENTIRETY BY THE MAGNETIC PARTICLE METHOD.
- MULTIPLE PASS WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER.
- SHOP WEB SPLICES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN.
- SHOP FLANGE SPLICES SHALL BE LOCATED A MINIMUM OF SIX INCHES FROM WEB SPLICES.
- FLANGE OR WEB SPLICES SHALL BE LOCATED A MINIMUM OF SIX INCHES FROM STIFFENERS AND CONNECTION PLATES.
- BEARING STIFFENERS, JACKING STIFFENERS, AND THE ENDS OF GIRDERS SHALL BE VERTICAL AFTER THE APPLICATION OF FULL DEAD LOADS.
- THE STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER AISC QUALITY CONTROL PROGRAM AS "CATEGORY MBR - MAJOR STEEL BRIDGES".
- THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY OF ALL STRUCTURAL ELEMENTS UNTIL THE TOTAL STRUCTURE IS IN BEING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY ADDITIONAL TEMPORARY BRACING REQUIRED TO MAINTAIN THE GEOMETRY OF THE INDIVIDUAL PLATE GIRDERS, AS WELL AS THE TOTAL STEEL STRUCTURE, THROUGHOUT ALL PHASES OF CONSTRUCTION INCLUDING PLACEMENT OF CONCRETE DECK.

FRAMING NOTES:




- ALL DIMENSIONS ARE HORIZONTAL AND MEASURED ALONG THE CENTERLINE OF THE WEB.
- BEARING AND JACKING STIFFENERS SHALL BE PROVIDED ON BOTH SIDES OF THE WEB.
- COST OF BEVELED SOLE PLATES SHALL BE PAID FOR UNDER THE ITEM "STRUCTURAL STEEL (SITE NO. 1)".
- DIAPHRAGMS SHALL BE PARALLEL TO THE CENTERLINE OF BEARINGS.
- NO ATTACHMENT SHALL BE FILLET WELDED, PLUG WELDED OR TACK WELDED TO THE BOTTOM FLANGE.

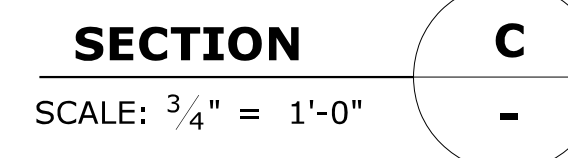
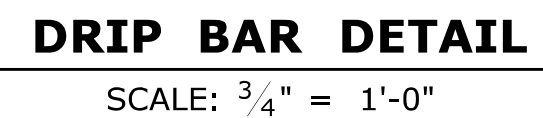
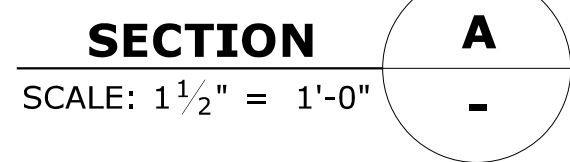
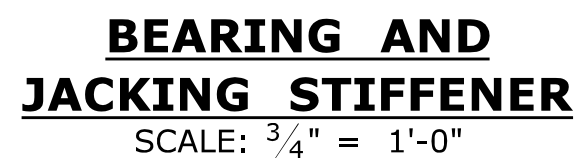
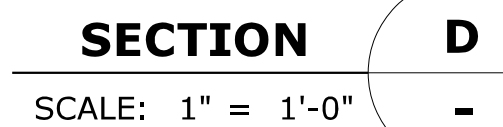
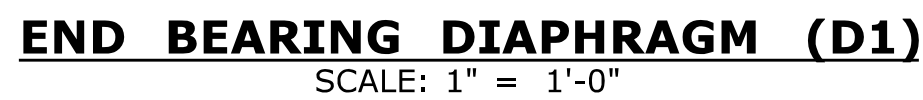
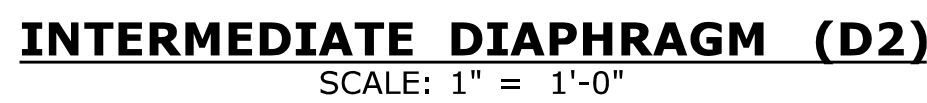
FUTURE JACKING NOTES:

- BEVELED JACKING PLATES WILL BE REQUIRED FOR FUTURE JACKING OF THE GIRDERS. LOCATION OF THE PLATES SHALL COINCIDE WITH JACKING STIFFENERS. JACKING PLATE SHALL BE SIZED ACCORDING TO METHOD OF JACKING USED AND SHALL BE DESIGNED BY PARTIES PERFORMING JACKING OPERATIONS.
- FOR FUTURE JACKING LOADS, SEE TABLE ON THIS SHEET.

REFERENCES:

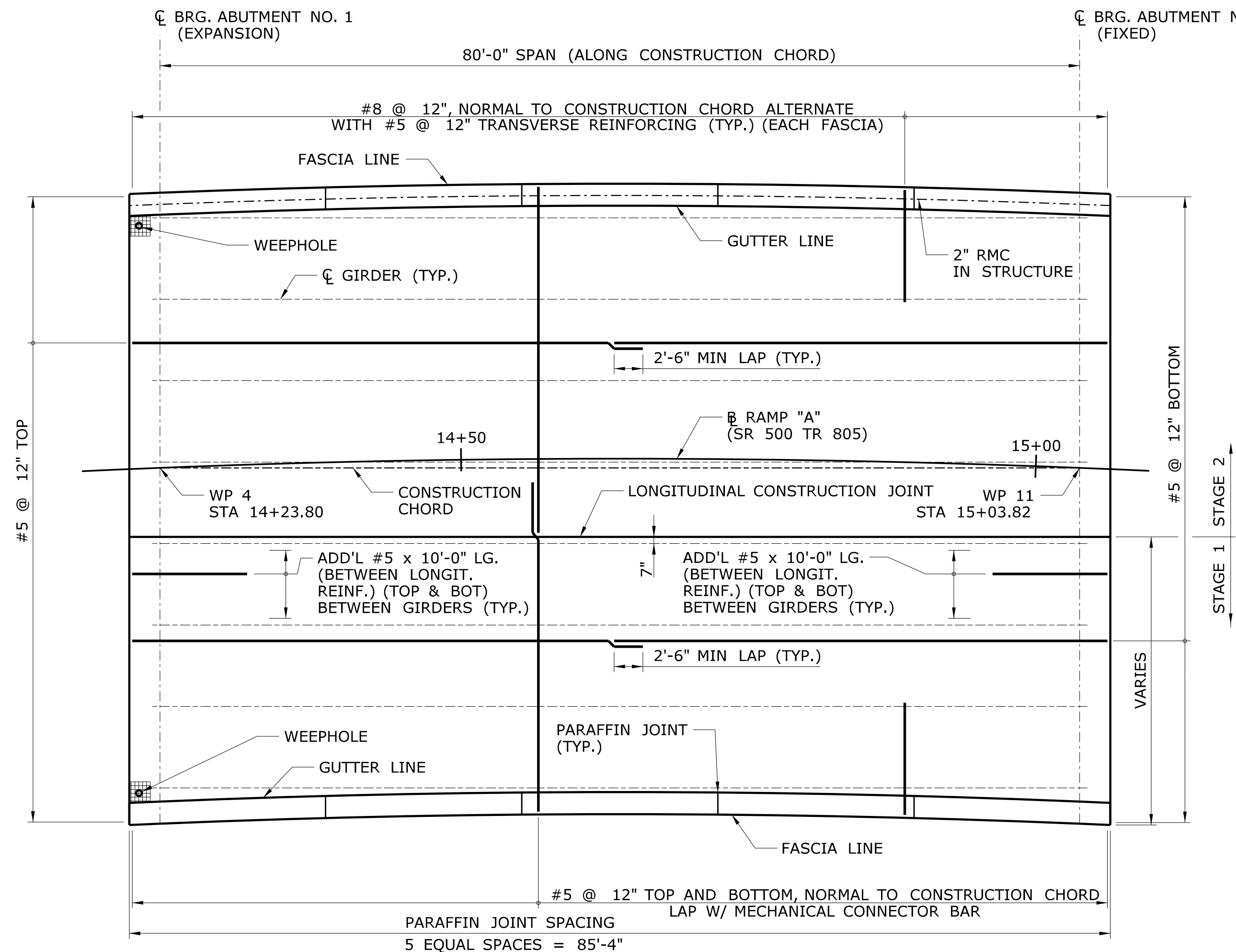
- FOR BEARING POINT COORDINATES, SEE DWG. NO. S-4.
- FOR DIAPHRAGM DETAILS, SEE DWG. NO. S-25.
- FOR BEARING AND JACKING STIFFENER DETAILS, SEE DWG. NO. S-25.
- FOR CONNECTION PLATE DETAIL, SEE DWG. NO. S-25.

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SFD	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK:  McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833	TOWN: EAST HARTFORD	PROJECT NO. 042-304					
-	-	-	-		CHECKED BY: JCH						DRAWING NO. S-24					
-	-	-	-		SCALE AS NOTED						SHEET NO. 01.04.24					
-	-	-	-													
REV.	DATE	REVISION DESCRIPTION			SHEET NO.						Plotted Date: 11/20/2014	Filename: ...\\SB_MSH_Br02374_24\\FRAME_PLAN.dgn				



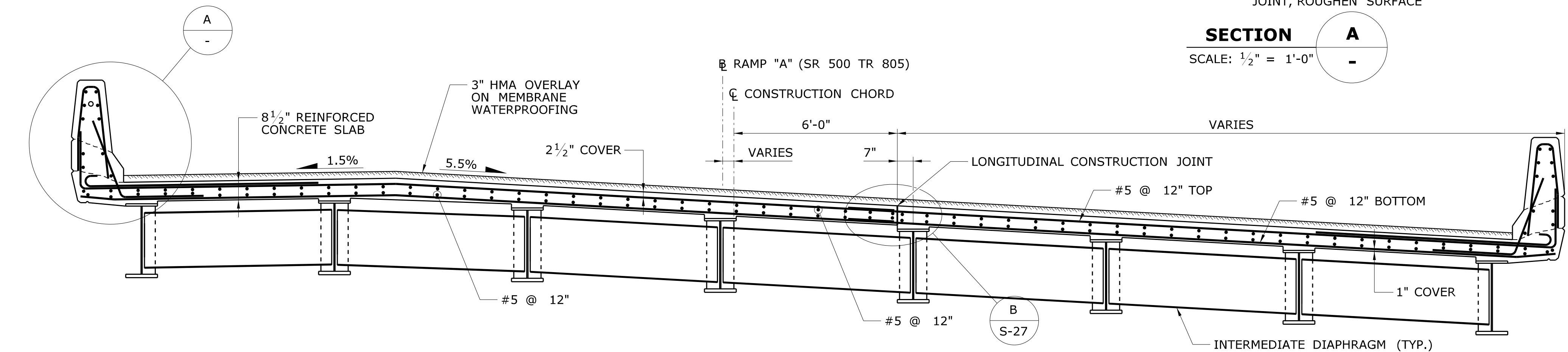
1. FOR FRAMING PLAN AND GIRDER ELEVATION, SEE DWG. NO. S-24.

[illegible]



DECK PLAN

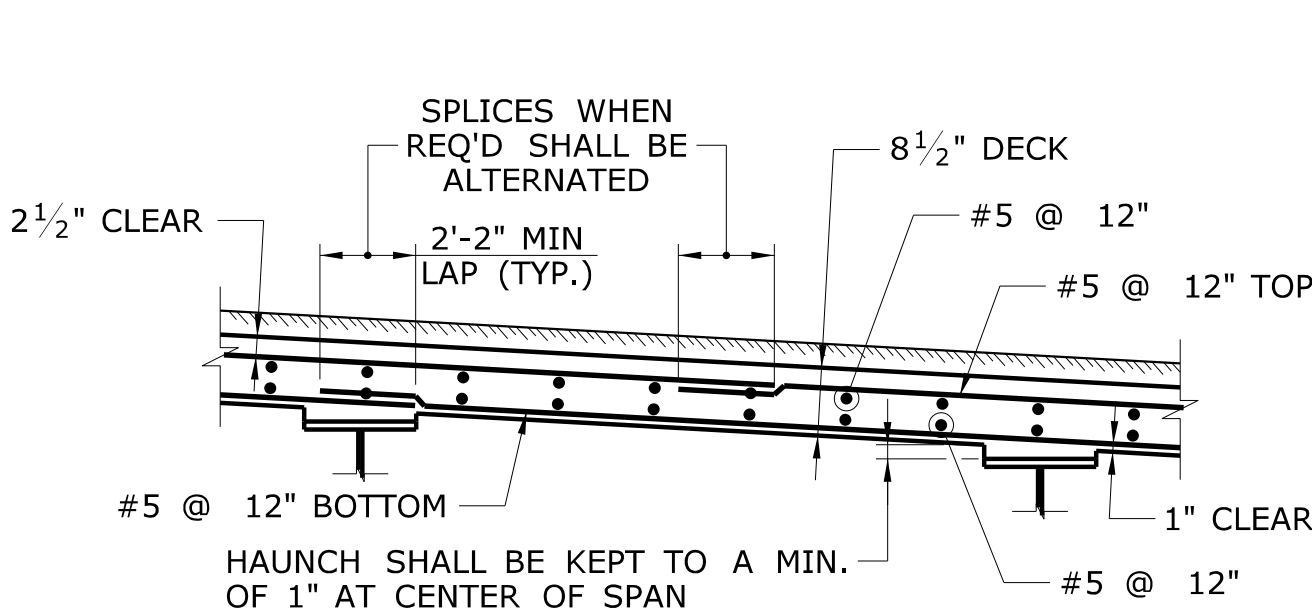
SCALE: 1/8" = 1'-0"



DECK REINFORCEMENT SECTION

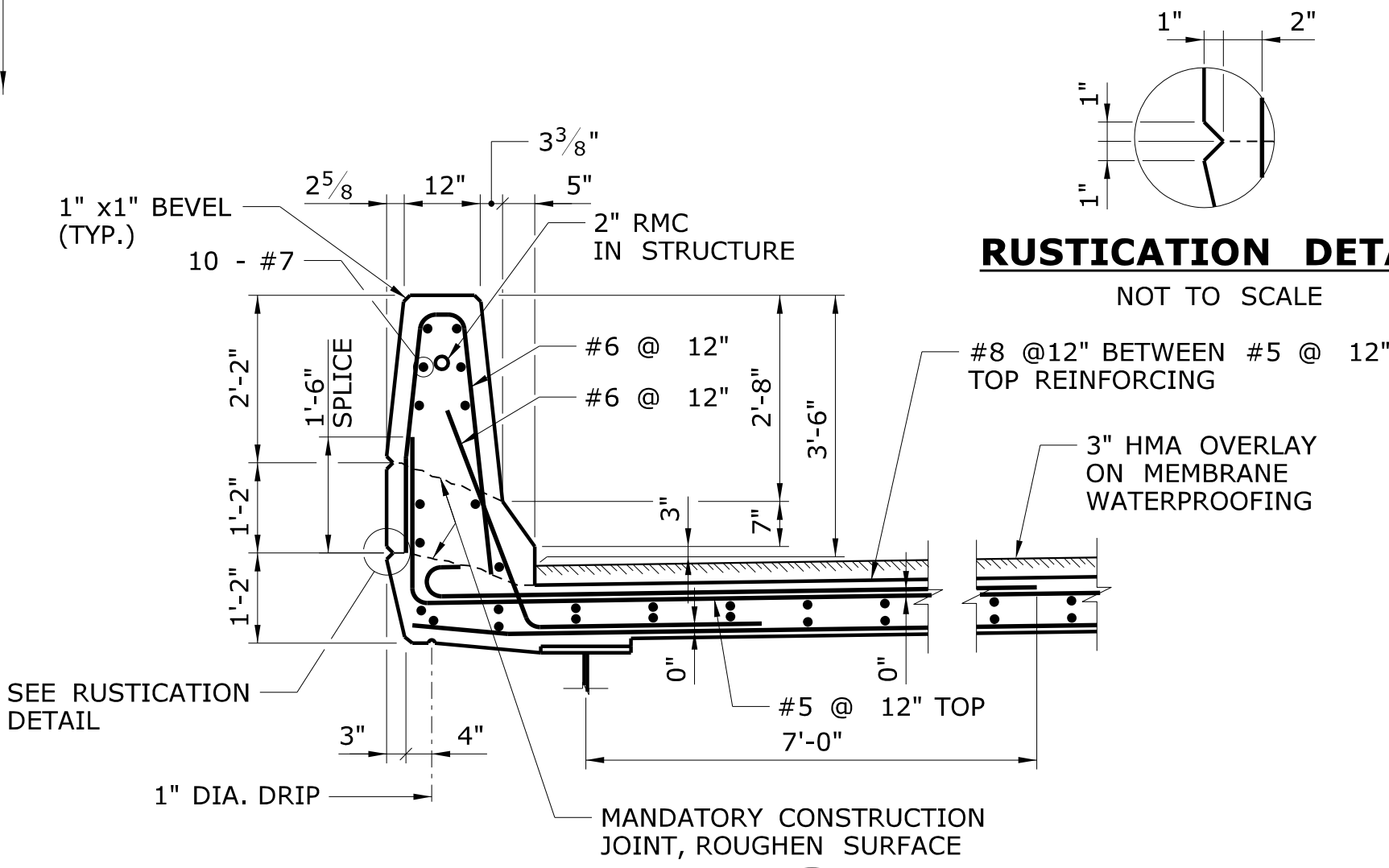
SCALE: 3/8" = 1'-0"

TOP OF SLAB ELEVATIONS											
GIRDER ID	CL BRG ABUT. 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	CL BRG ABUT. 2
G1	35.93	35.94	35.95	35.94	35.93	35.91	35.88	35.85	35.80	35.75	35.69
G2	36.04	36.05	36.05	36.05	36.04	36.02	35.99	35.95	35.91	35.85	35.79
G3	35.84	35.83	35.81	35.80	35.78	35.76	35.73	35.70	35.67	35.63	35.59
G4	35.45	35.44	35.43	35.41	35.39	35.37	35.34	35.31	35.28	35.24	35.20
G5	35.06	35.05	35.04	35.02	35.00	34.98	34.95	34.92	34.89	34.85	34.81
G6	34.67	34.66	34.65	34.63	34.61	34.59	34.56	34.53	34.50	34.46	34.42
G7	34.28	34.27	34.26	34.24	34.22	34.20	34.17	34.14	34.11	34.07	34.02
G8	33.89	33.88	33.87	33.85	33.83	33.81	33.78	33.75	33.71	33.68	33.63



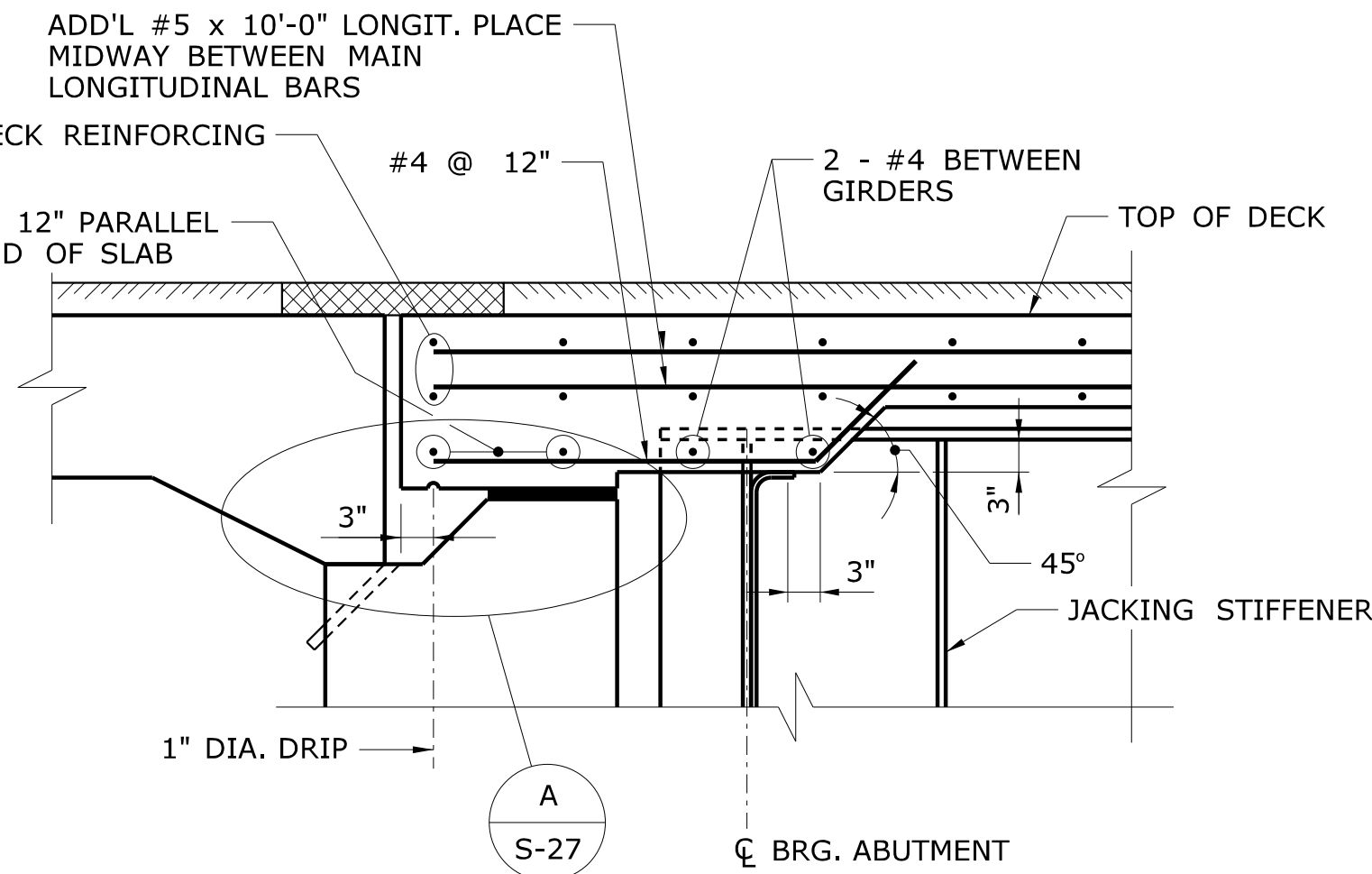
TYPICAL SLAB REINFORCEMENT SECTION

SCALE: 1/2" = 1'-0"



RUSTICATION DETAIL

NOT TO SCALE



SLAB END HAUNCH DETAIL

SCALE: 3/4" = 1'-0"

HAUNCH NOTES:

- PRIOR TO PLACING SLAB FORMS, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF THE BEAMS AT POINTS SHOWN IN THE TABLE.
- THE HAUNCH THICKNESS SHALL BE DETERMINED AS FOLLOWS:

FINISHED TOP OF SLAB ELEVATION	=	A
SLAB THICKNESS	=	B
TOP OF BEAM ELEVATION	=	C (FIELD MEASURED)
ADDITIONAL DEAD LOAD DEFLECTION	=	D
COMPOSITE DEAD LOAD DEFLECTION	=	E
HAUNCH THICKNESS	=	(A+B) + D + E - C
- THE MINIMUM HAUNCH THICKNESS SHALL BE 1". IF IT IS DETERMINED THAT THE HAUNCH CANNOT BE MAINTAINED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

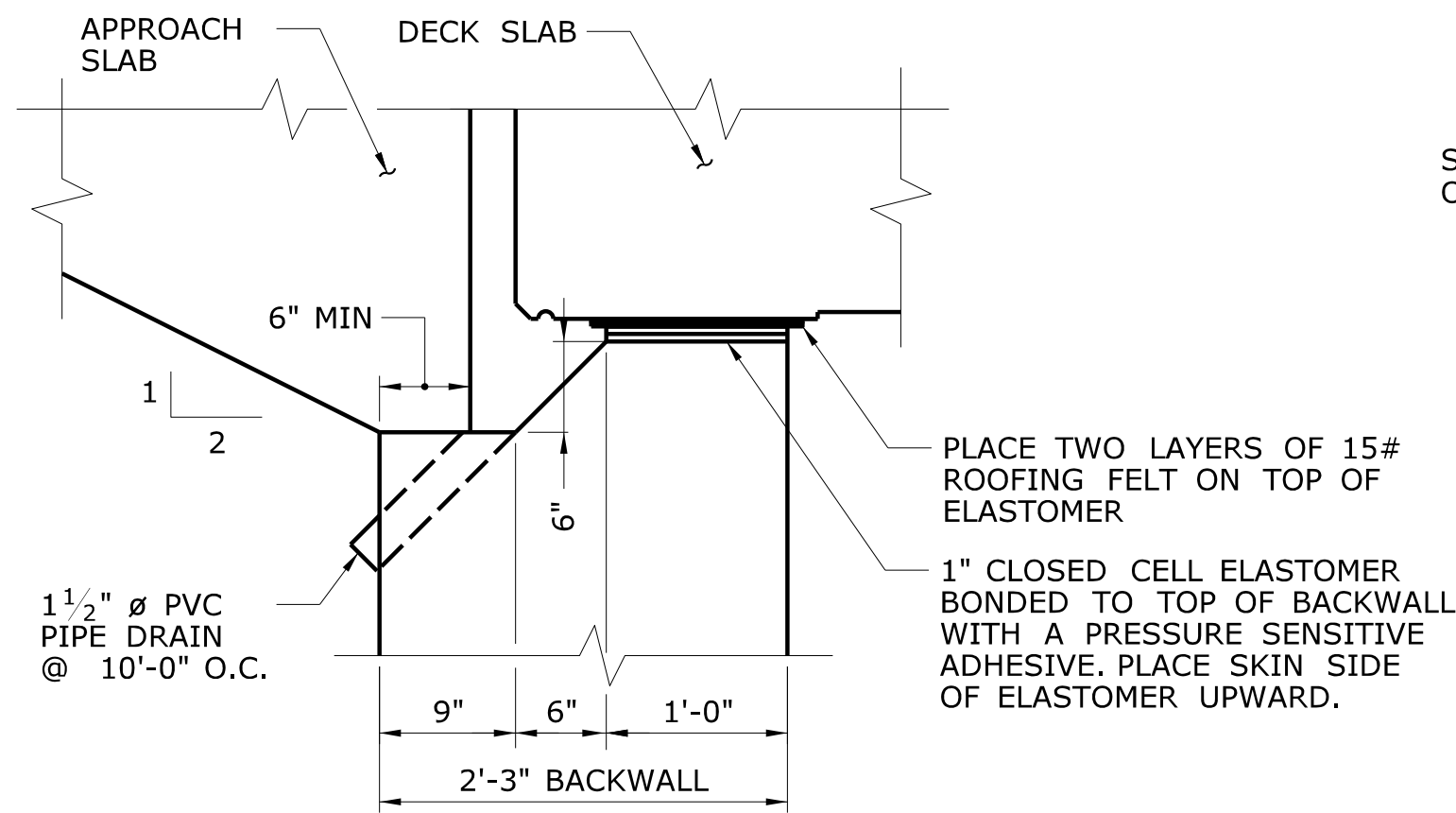
NOTES:

- CLASS "F" CONCRETE SHALL BE USED THROUGHOUT THE ENTIRE DECK AND PARAPETS.
- ALL REINFORCING IN THE CONCRETE DECK, AND PARAPETS SHALL BE EPOXY COATED, UNLESS OTHERWISE NOTED, AND SHALL BE PAID FOR IN THE ITEM "DEFORMED STEEL BARS (EPOXY COATED)".
- THE PARAFFIN JOINTS IN PARAPET ARE TO BE CONSTRUCTED AS INDICATED.

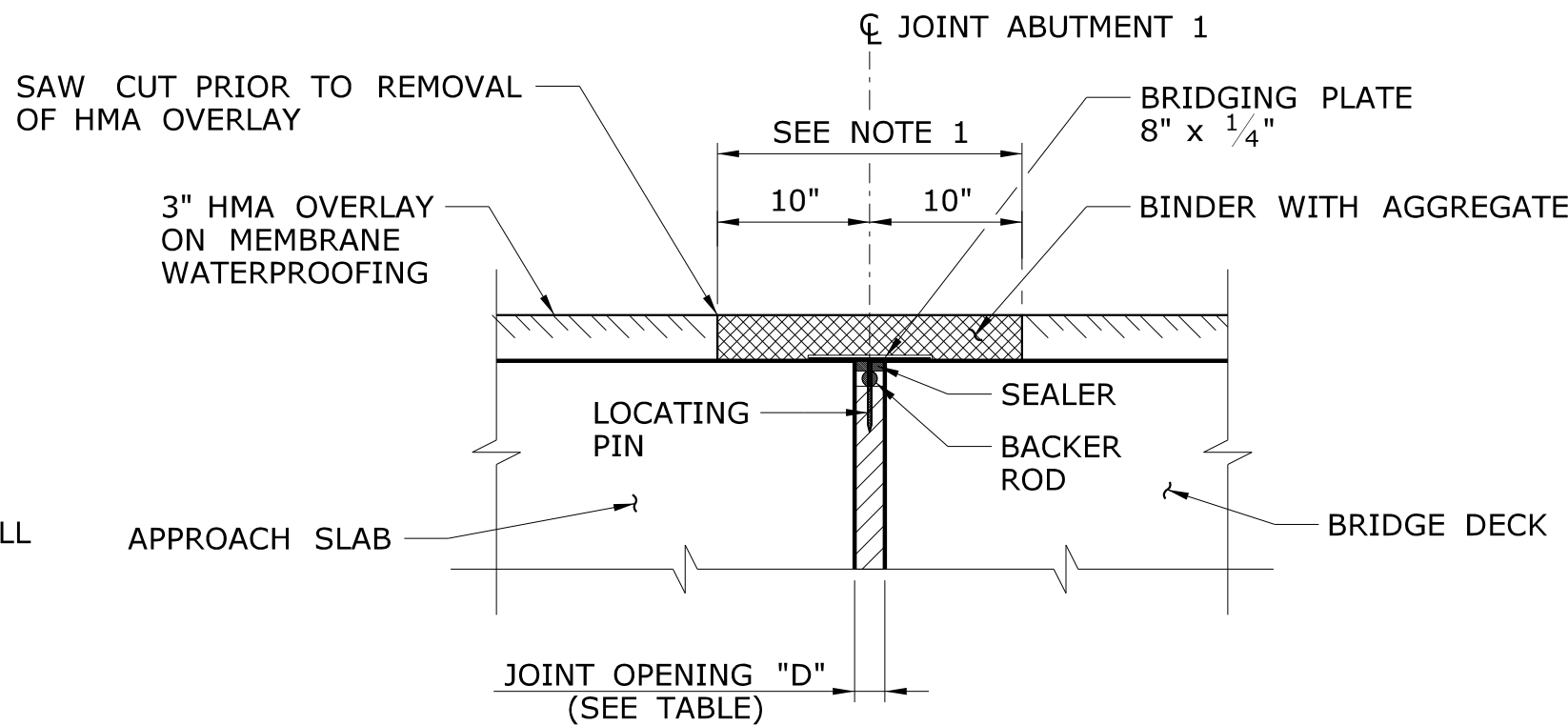
REFERENCES:

- FOR WORKING POINT COORDINATES, SEE DWG. NO. S-4.

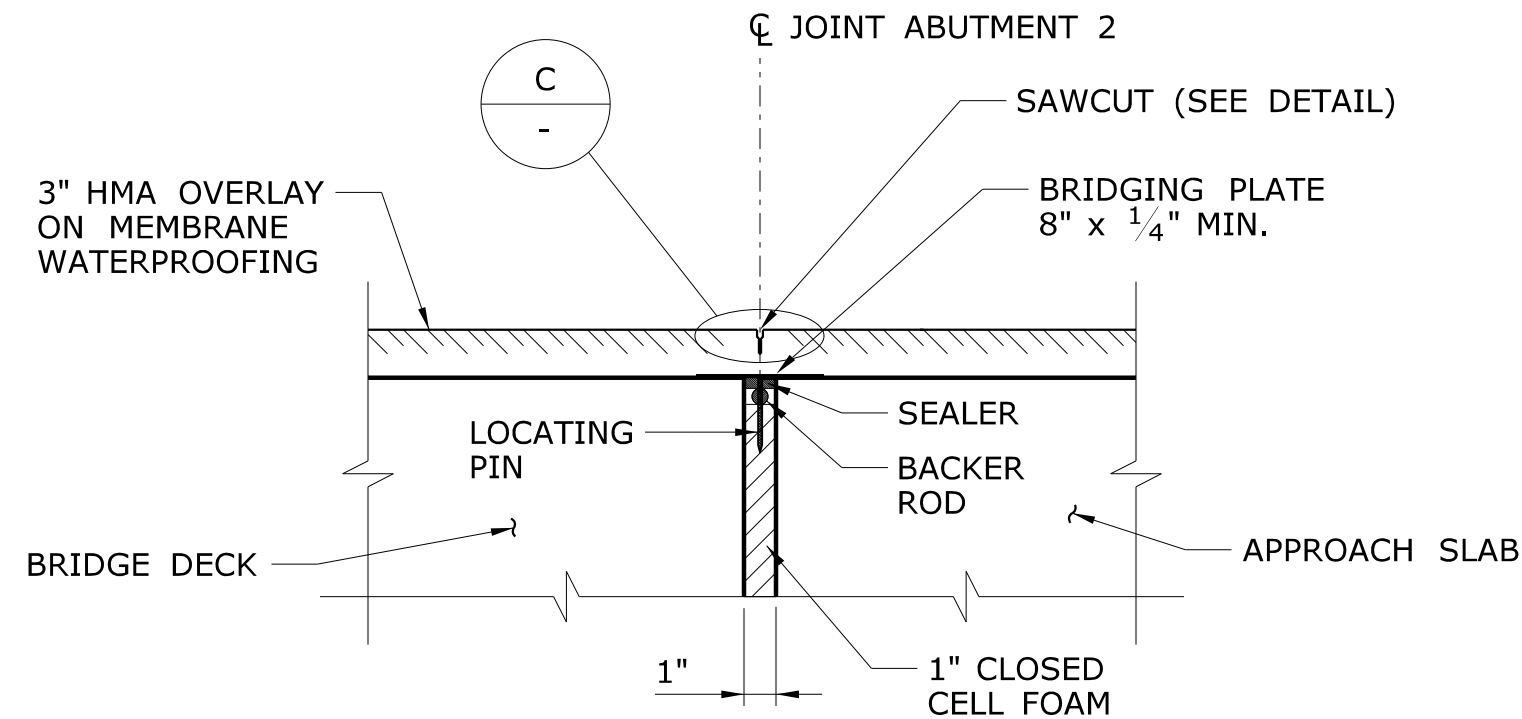
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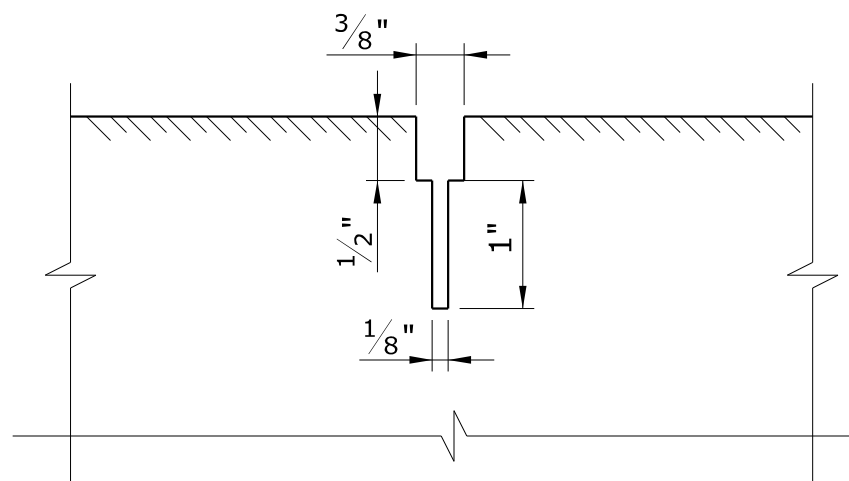
DETAIL A
SCALE: 1" = 1'-0"
S-26



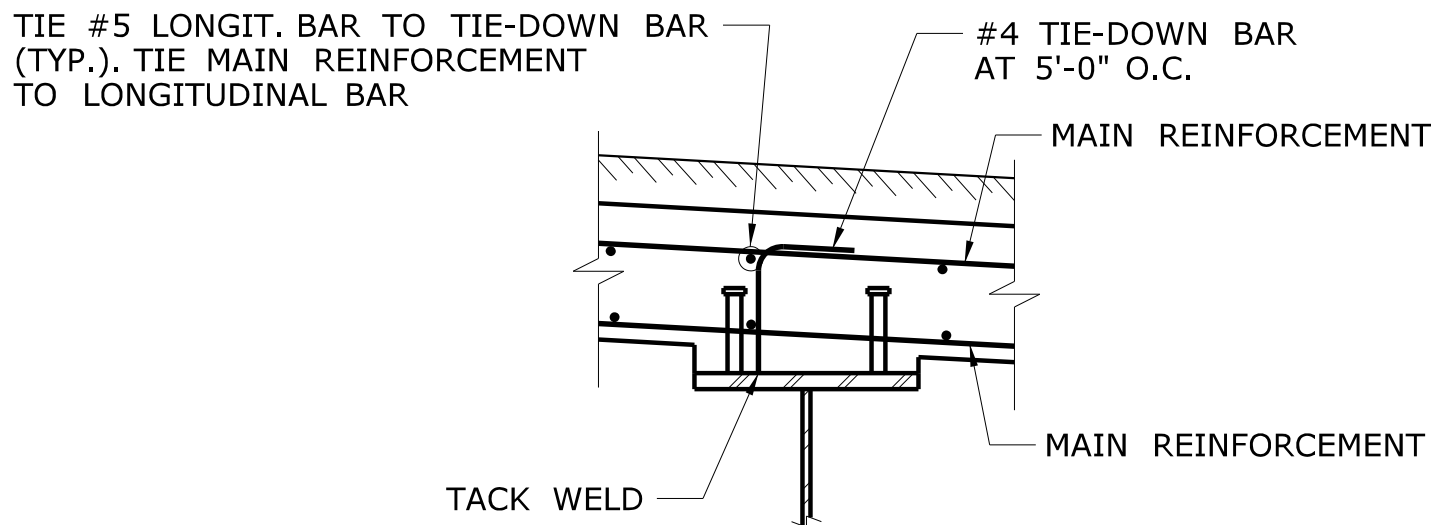
ASPHALTIC PLUG EXPANSION JOINT SYSTEM
SCALE: 1" = 1'-0"



SAWCUT JOINT
SCALE: 1" = 1'-0"



DETAIL C
NOT TO SCALE
-

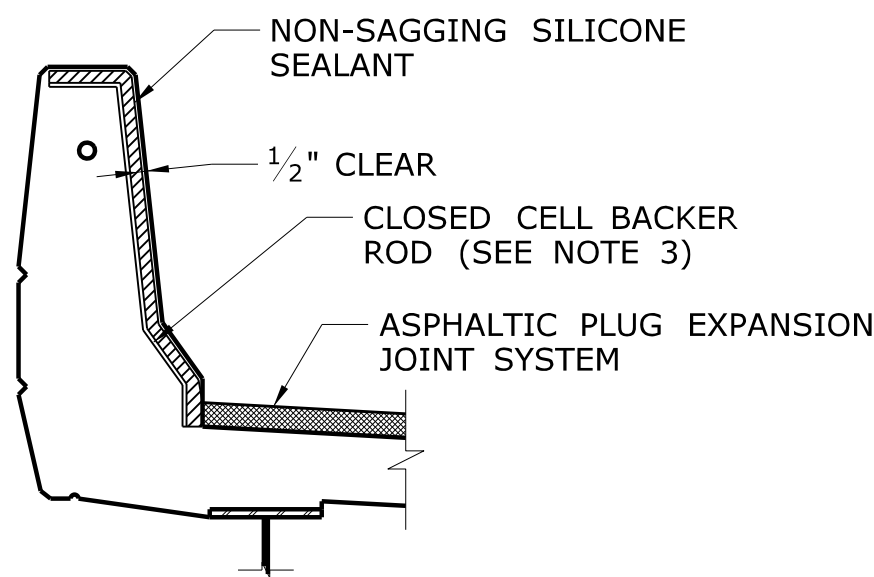


TIE DOWN NOTES:

- TIE-DOWN BARS DO NOT EXCLUDE THE USE OF CHAIRS FOR SUPPORTING THE REINFORCEMENT MAT.
- THE COST OF FURNISHING AND PLACING TIE-DOWN BARS TO BE INCLUDED IN THE CONTRACT ITEM "DEFORMED STEEL BARS - EPOXY COATED".
- TIE-DOWN BARS AND LONGITUDINAL BARS SHALL CLEAR SHEAR CONNECTORS.

TIE DOWN DETAIL
SCALE: 1" = 1'-0"

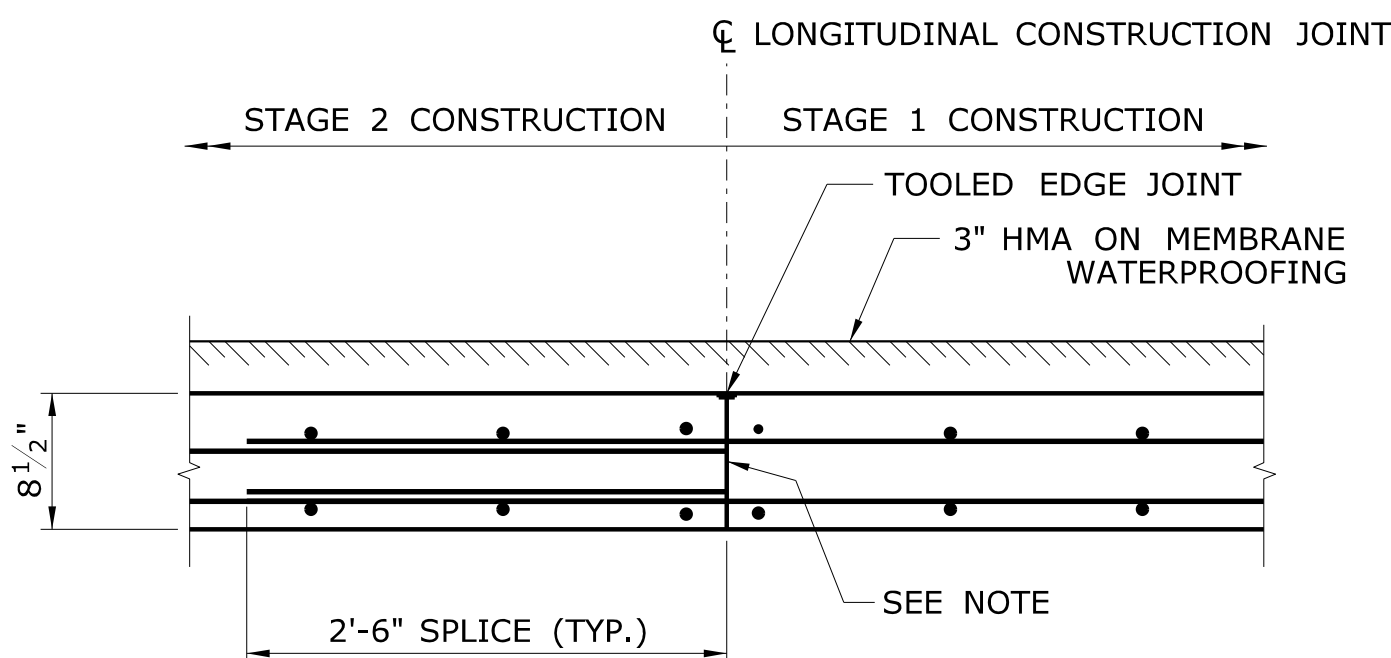
ASPHALTIC PLUG JOINT OPENING TABLE	
INSTALL TEMPERATURE	PERPENDICULAR JOINT OPENING "D"
40° F	1 9/16"
50° F	1 1/2"
60° F	1 7/16"
70° F	1 3/8"
80° F	1 5/16"



ASPHALTIC PLUG EXPANSION JOINT TREATMENT AT PARAPET
SCALE: 1/2" = 1'-0"

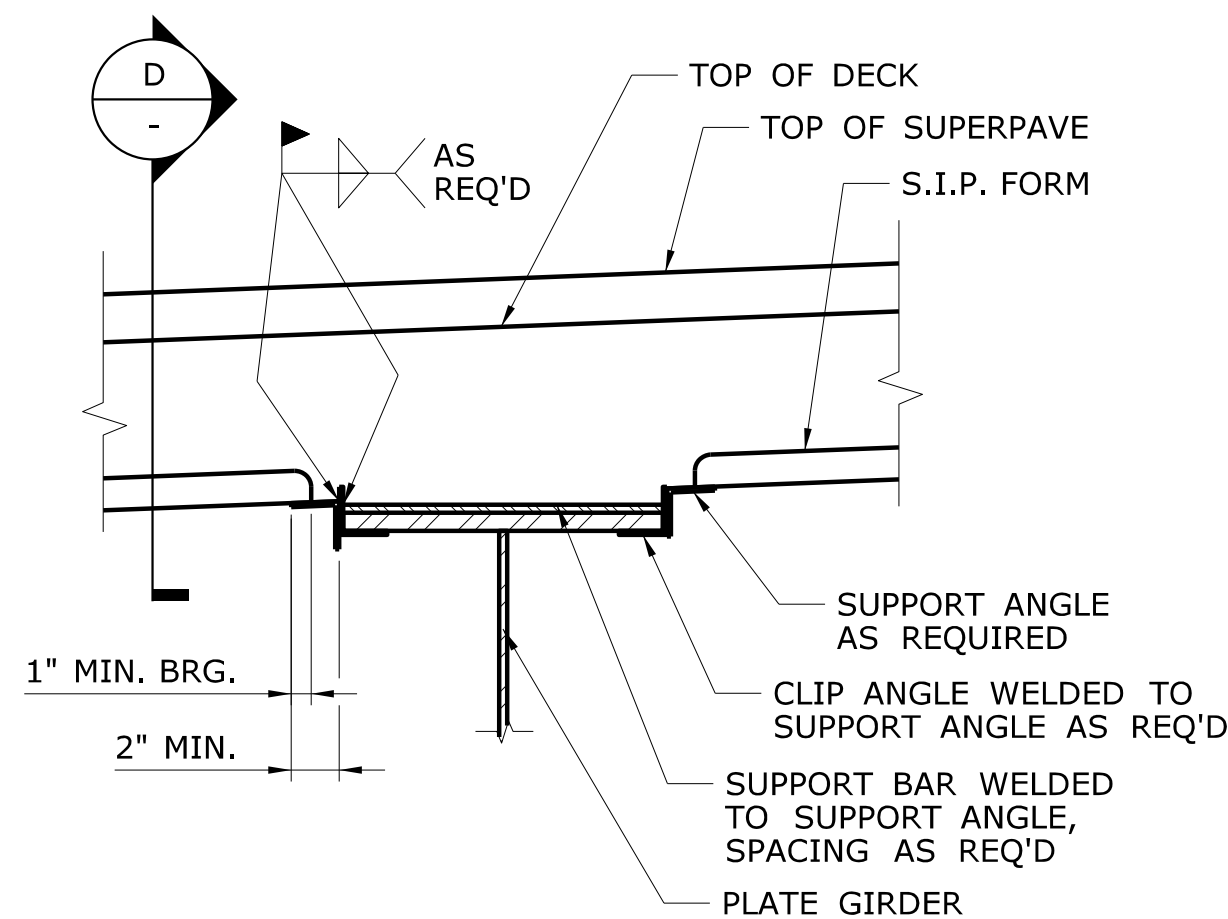
ASPHALTIC PLUG EXPANSION JOINT NOTES:

- REMOVE NEW SUPERPAVE OVERLAY. REPLACE WITH ASPHALTIC PLUG EXPANSION JOINT SYSTEM, TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". SEE SPECIAL PROVISIONS.
- THE CLOSED CELL BACKER ROD SHALL BE PLACED A MINIMUM OF 2 INCHES FROM THE OUTSIDE FACE OF THE PARAPETS, TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
- THE NON-SAGGING SILICONE SEALANT SHALL BE PLACED ON THE BACKER ROD 1/2 INCH THICK. AT THE GUTTER LINE, THE SILICONE SEALANT SHALL BE PLACED FLUSH WITH THE OUTSIDE FACE OF CONCRETE, TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
- PRIOR TO INSTALLING THE SILICONE SEALANT, CLEAN JOINT SIDES BY SANDBLASTING. DUST SHALL BE REMOVED BY THE METHOD APPROVED BY THE ENGINEER, TO BE PAID FOR UNDER THE ITEM "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". SEE SPECIAL PROVISIONS.

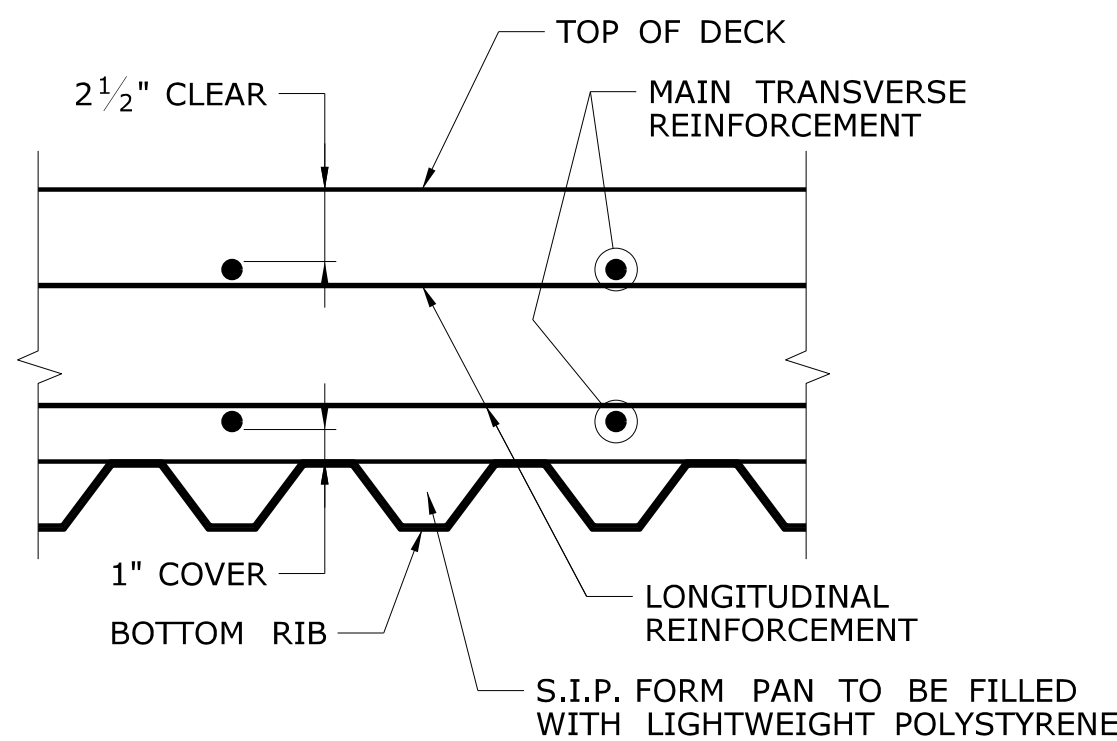


TYPICAL SECTION AT LONGITUDINAL CONSTRUCTION JOINT

DETAIL B
SCALE: 1" = 1'-0"
S-26



TYPICAL SECTION
SCALE: 1" = 1'-0"



SECTION D
NOT TO SCALE
-

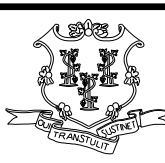
S.I.P. FORM NOTES:

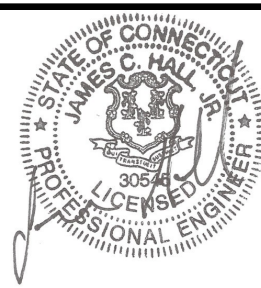
- PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH SPECIAL PROVISIONS, SECTION 6.01 CONCRETE FOR STRUCTURES
- FORM ENDS SHALL BE CRIMPED CLOSED IN A TAPERED MANNER. SEPARATE END CLOSURE PIECES WILL NOT BE ALLOWED.
- SUPPORT ANGLES SHALL BE PLACED IN THE "LEG DOWN" POSITION WHERE POSSIBLE. WHERE "LEG UP" POSITION IS NECESSARY, THE UPPER MOST PORTION OF THE ANGLE SHALL NOT PROJECT MORE THAN 1" ABOVE THE TOP FLANGE. THE CONTRACTOR SHALL HAVE AN ASSORTMENT OF ANGLES OF VARIOUS SIZES AVAILABLE ON THE SITE TO CONFORM TO THIS REQUIREMENT.
- WELDS SHALL BE ALLOWED IN THE COMPRESSION ZONE OF THE GIRDER TOP FLANGE ONLY. SEE GIRDER ELEVATIONS FOR LIMITS OF COMPRESSION ZONES. IN TOP FLANGE TENSION ZONES, BEARING STIRRUPS MAY BE USED TO SPAN OVER THE TOP FLANGE AS SHOWN. ALTERNATE STIRRUP ARRANGEMENTS SHALL BE DESIGNED BY THE CONTRACTOR. STIRRUPS SHALL MEET THE CLEARANCE REQUIREMENTS DESCRIBED ABOVE.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER: SFD
CHECKED BY: JCH
SCALE AS NOTED

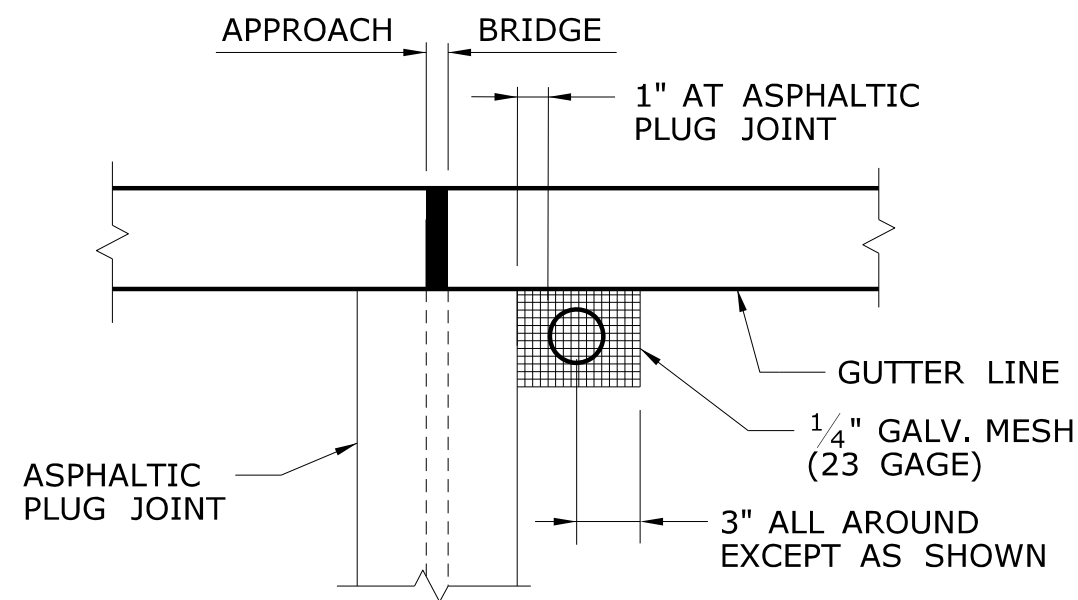
 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br02374_27DECK.DTL\$1.dgn

SIGNATURE/BLOCK:  McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301
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PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833
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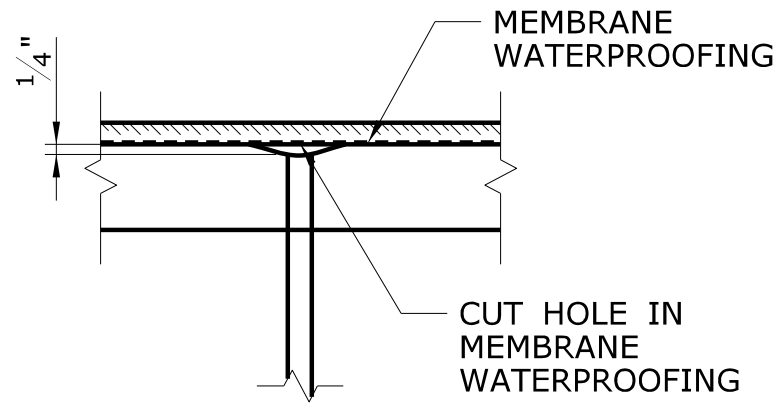
TOWN: EAST HARTFORD
DRAWING TITLE: DECK DETAILS (1 OF 2)

PROJECT NO. 042-304
DRAWING NO. S-27
SHEET NO. 01.04.27



DECK WEEPHOLE PLAN

NOT TO SCALE

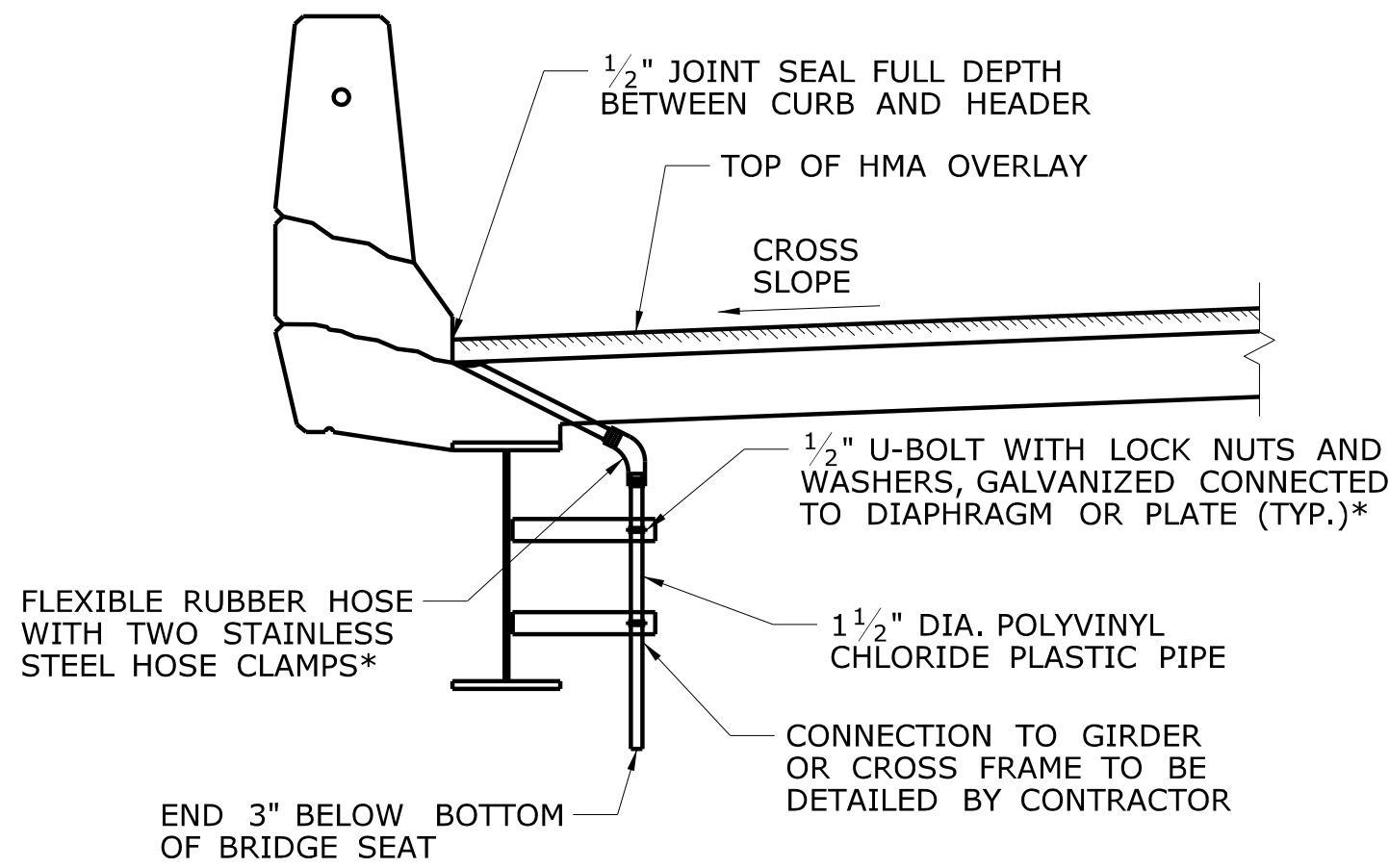


TYPICAL DRAIN DETAIL

NOT TO SCALE

- NOTES:
1. THE COST OF FURNISHING AND INSTALLING 1/4" SQUARE GALVANIZED MESH SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR "HMA S0.5".
 2. SEE DECK PLAN FOR WEEPHOLE LOCATIONS.

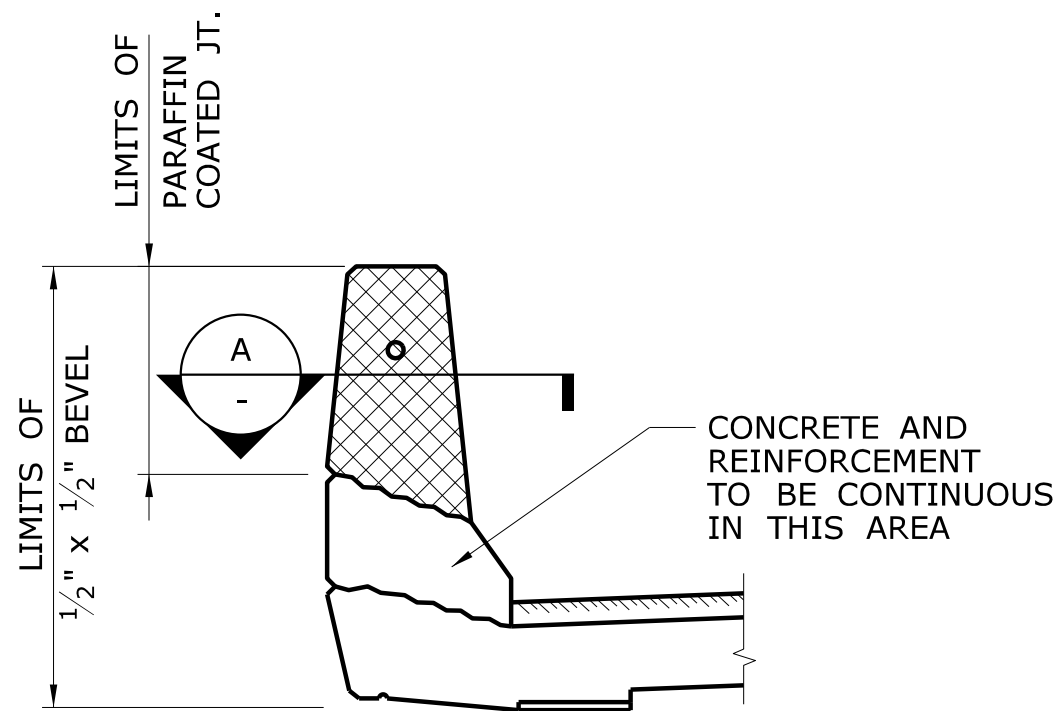
DECK WEEPHOLE DETAILS



*PAID FOR UNDER 1-1/2" POLYVINYL CHLORIDE PLASTIC PIPE

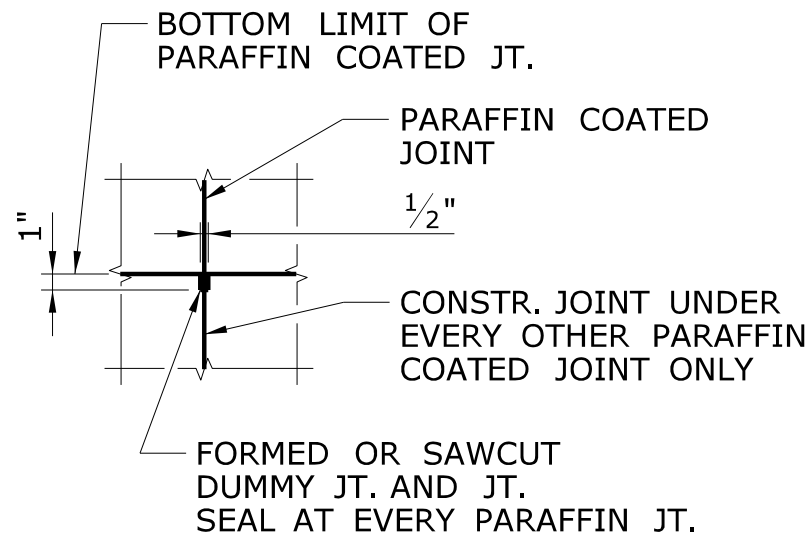
SECTION THROUGH DECK WEEPHOLE AT BRIDGE FASCIA

SCALE: 1/2" = 1'-0"



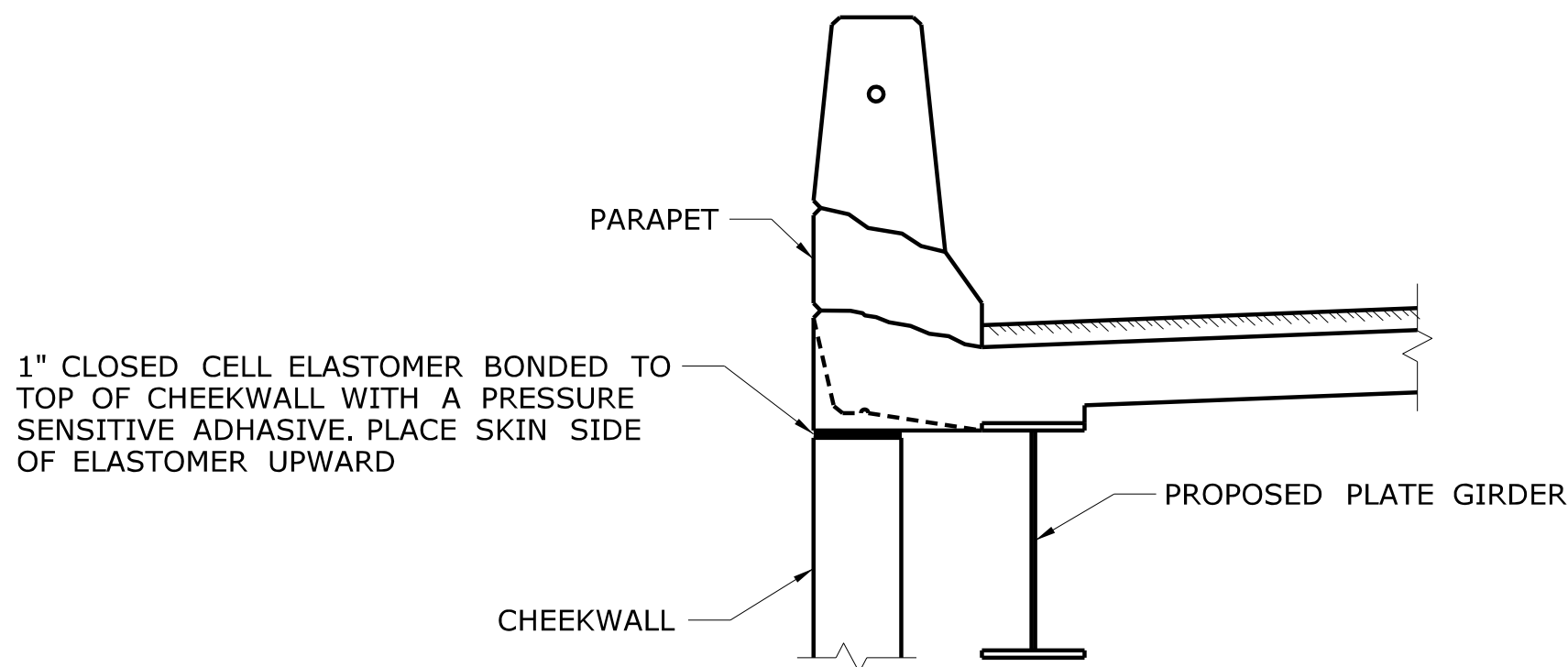
PARAPET DETAIL

SCALE: 1/2" = 1'-0"



SECTION A

SCALE: 1/2" = 1'-0"



PARAPET DETAIL AT ABUTMENT

SCALE: 1/2" = 1'-0"

PARAFFIN COATED JOINT DETAILS

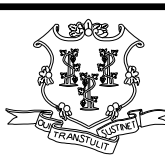
▨ — PARAFFIN COATED AREA


REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/20/2014

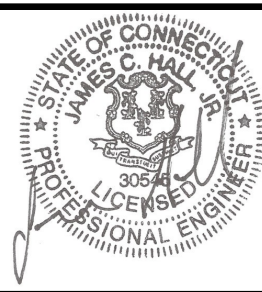
DESIGNER/DRAFTER:
SFD
CHECKED BY:
JCH
SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION



Filename: ...\\SB_MSH_Br02374-28\\DECK_DTLS2.dgn

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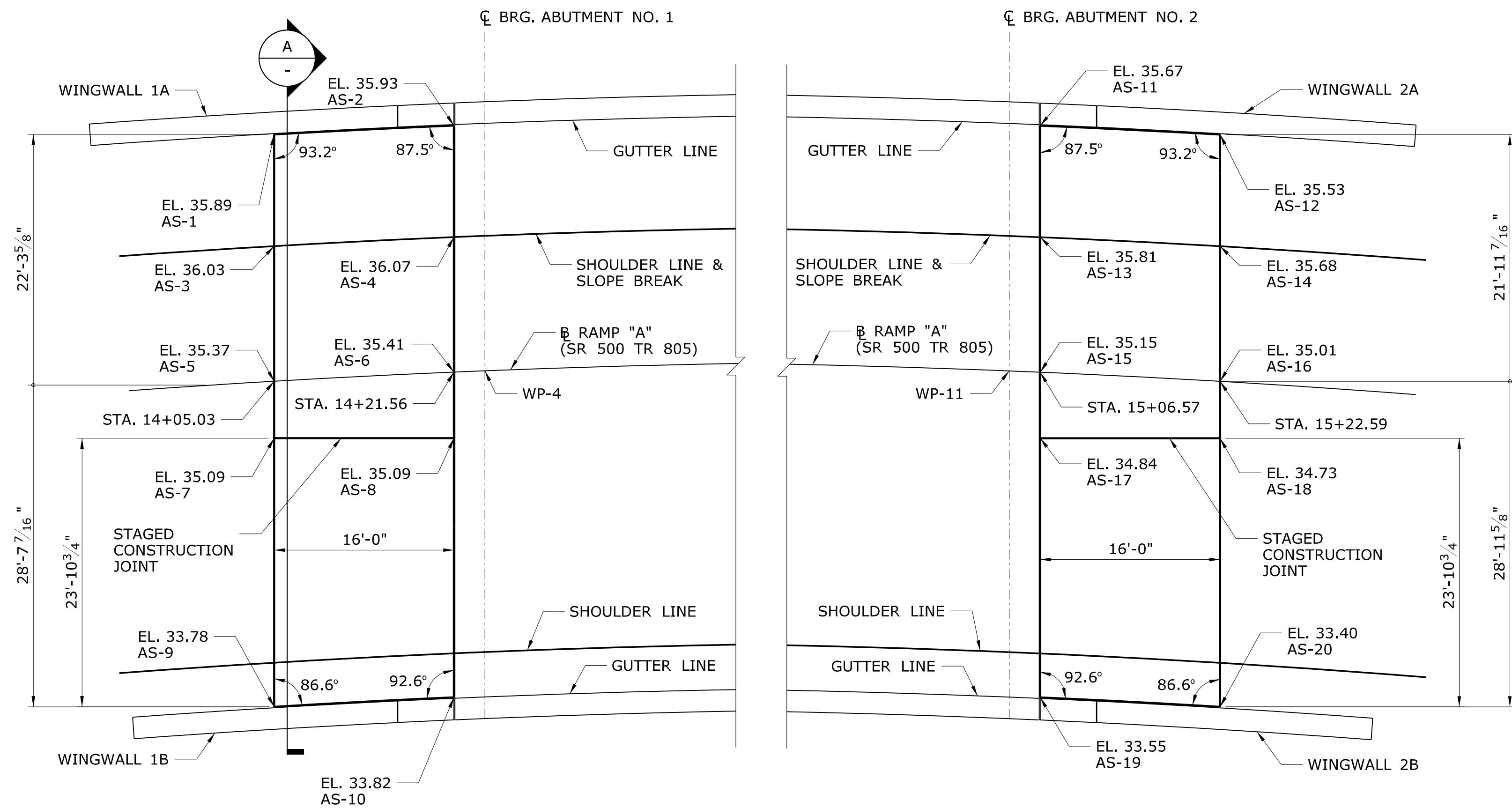
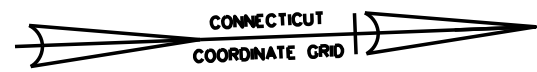


McFARLAND JOHNSON
53 REGIONAL DRIVE
CONCORD, NH 03301

PROJECT TITLE:
**REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833**

TOWN:
EAST HARTFORD
DRAWING TITLE:
DECK DETAILS (2 OF 2)

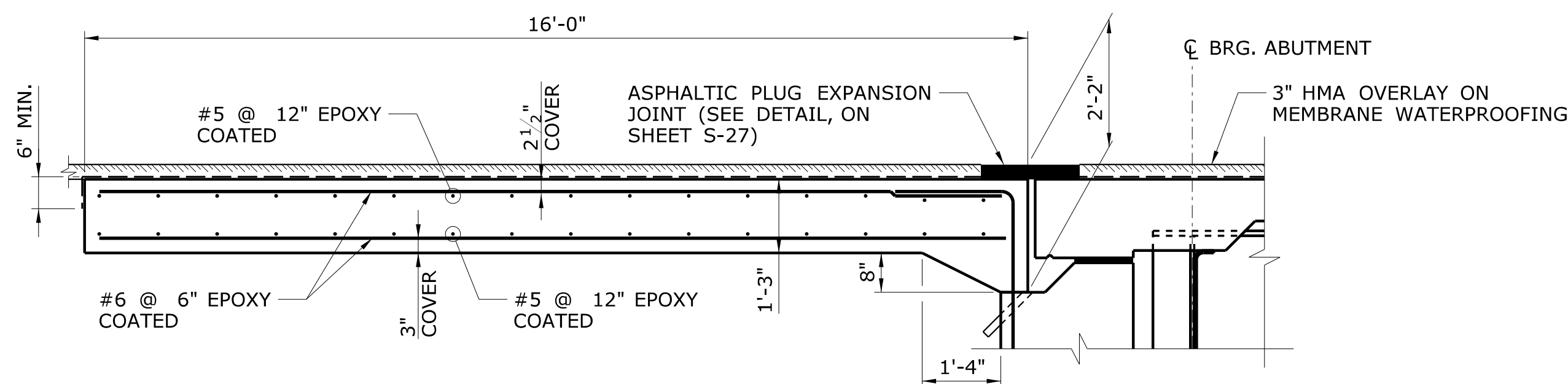
PROJECT NO.
042-304
DRAWING NO.
S-28
SHEET NO.
01.04.28



NOTE: ALL ELEVATIONS SHOWN ARE APPLIED AT THE TOP OF CONCRETE APPROACH SLAB.

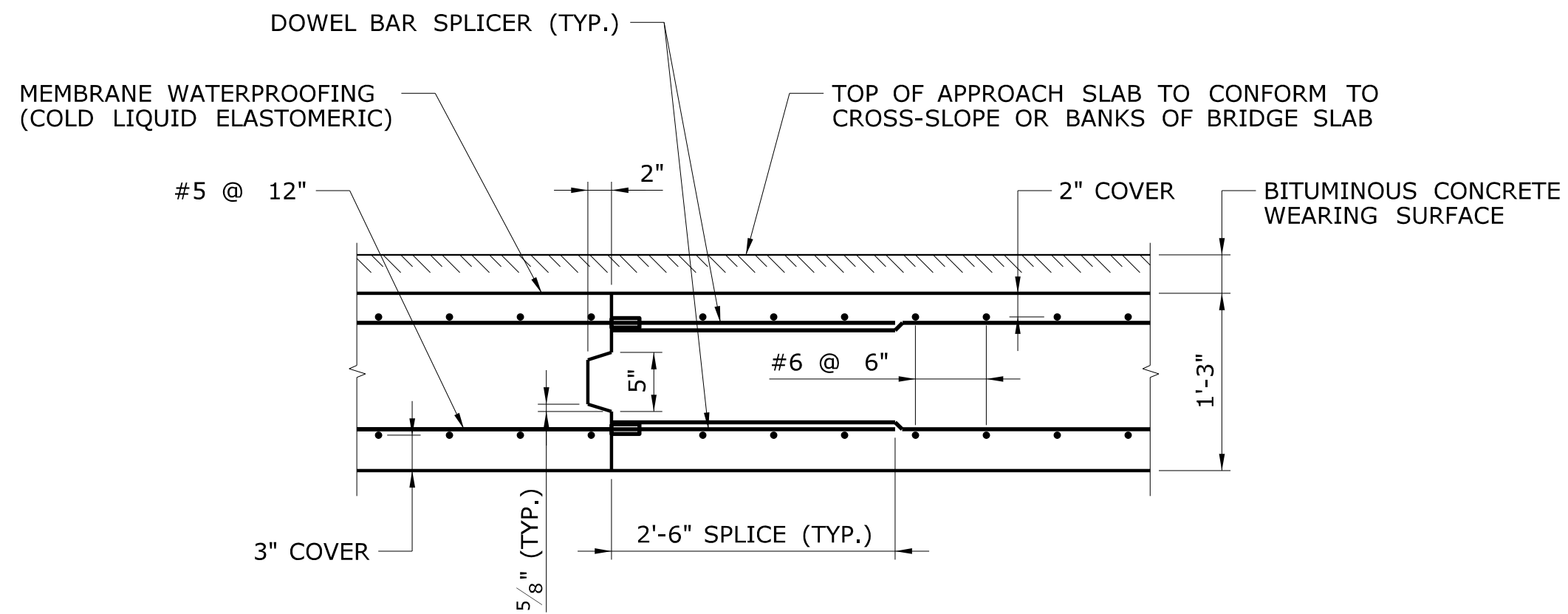
APPROACH SLAB PLAN

SCALE: 1/8" = 1'-0"



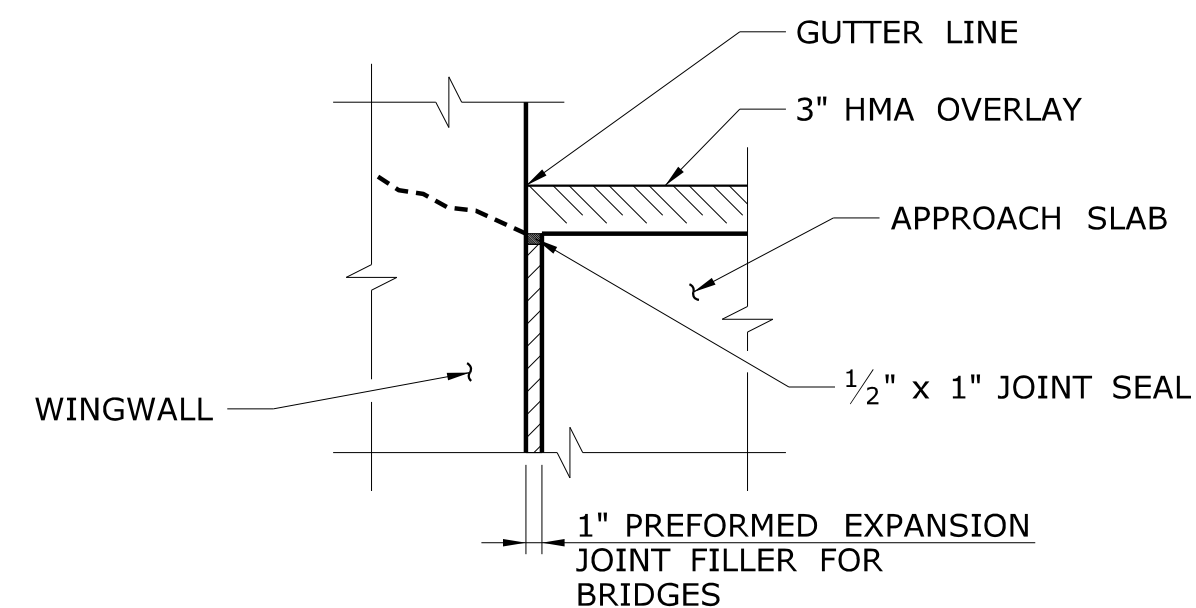
TYPICAL LONGITUDINAL SECTION

SCALE: 1/2" = 1'-0"



LONGITUDINAL CONSTRUCTION JOINT DETAIL

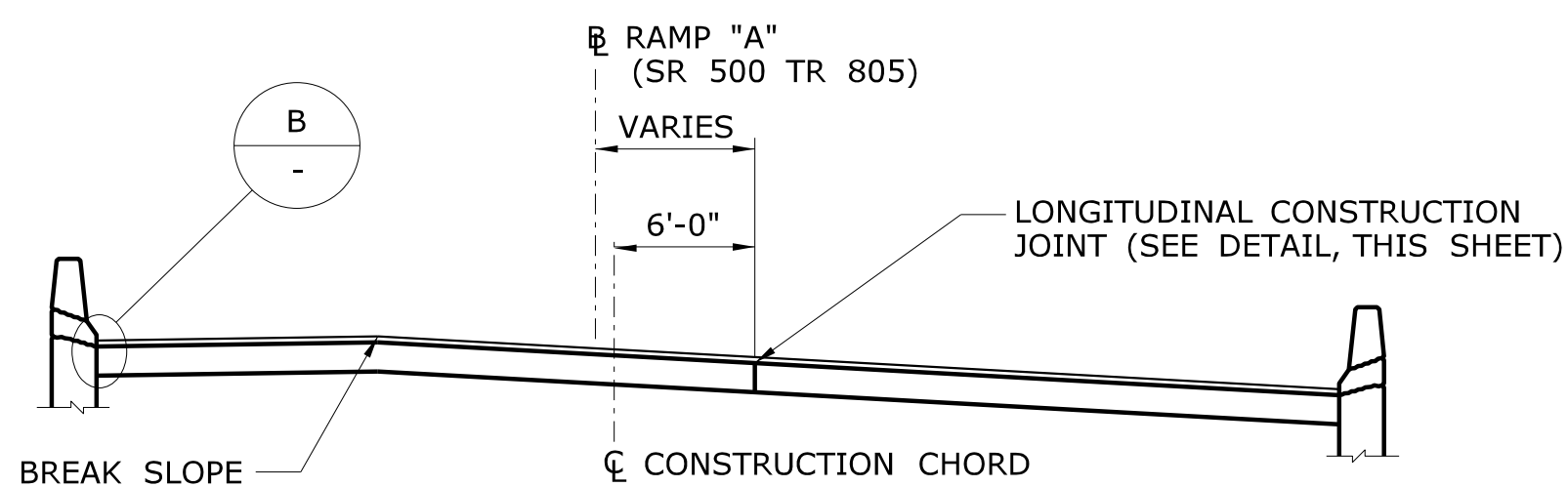
SCALE: 1" = 1'-0"



DETAIL

B

SCALE: 1" = 1'-0"



SECTION

A

SCALE: 1/8" = 1'-0"


REFERENCES:


- FOR WORKING POINT COORDINATES, SEE DWG. NO. S-4.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER: SFD
CHECKED BY: JCH
SCALE AS NOTED

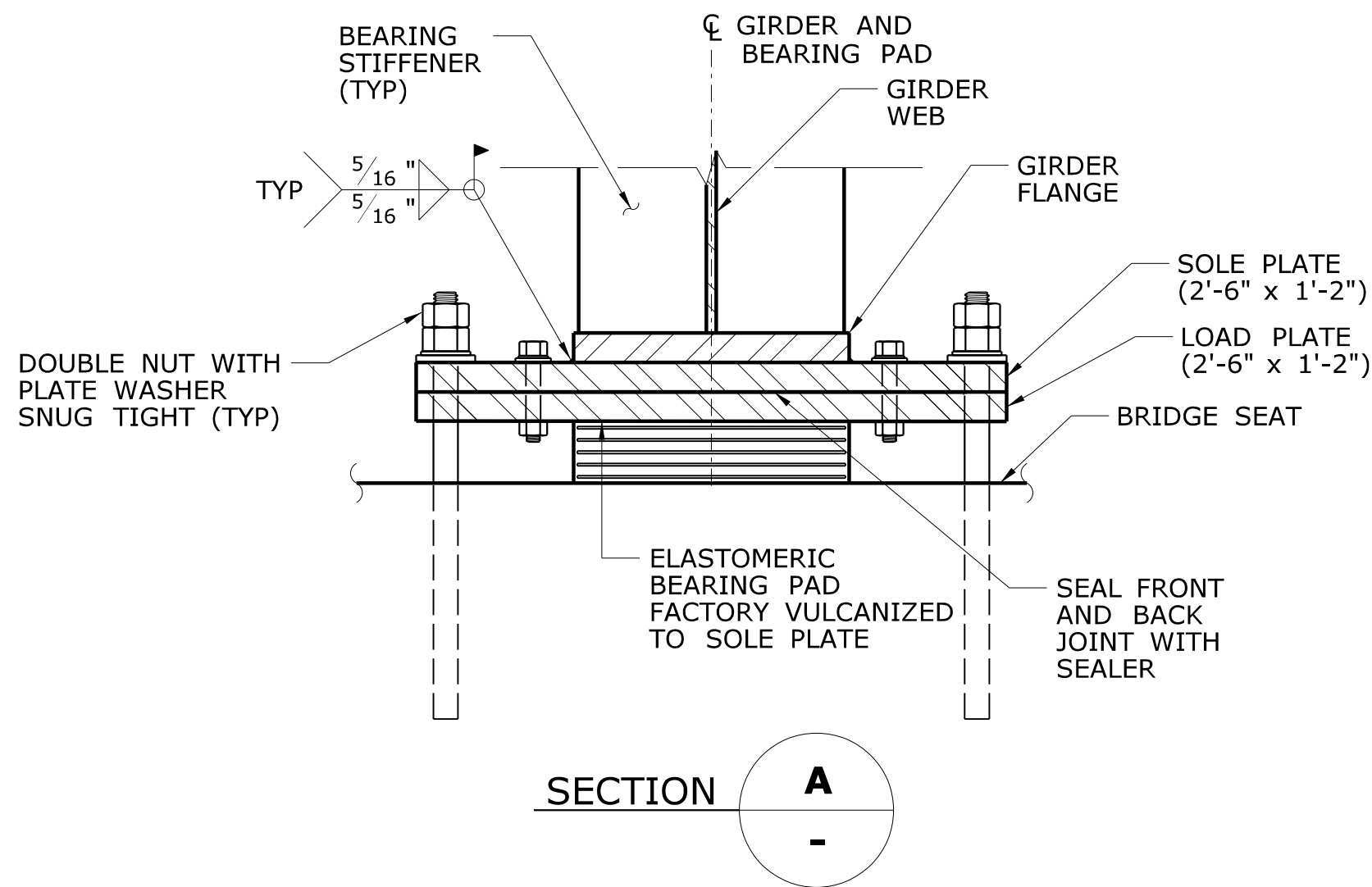
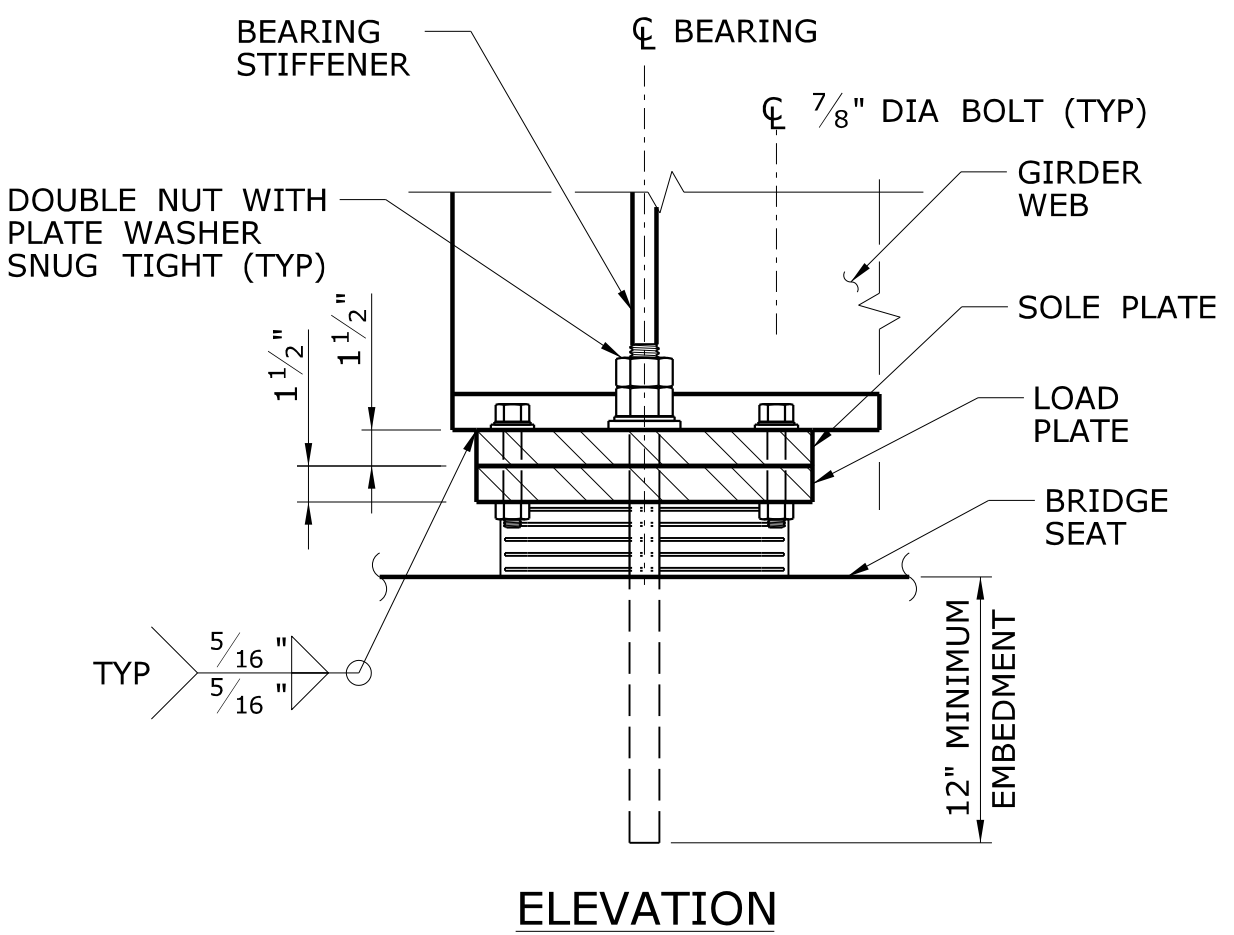
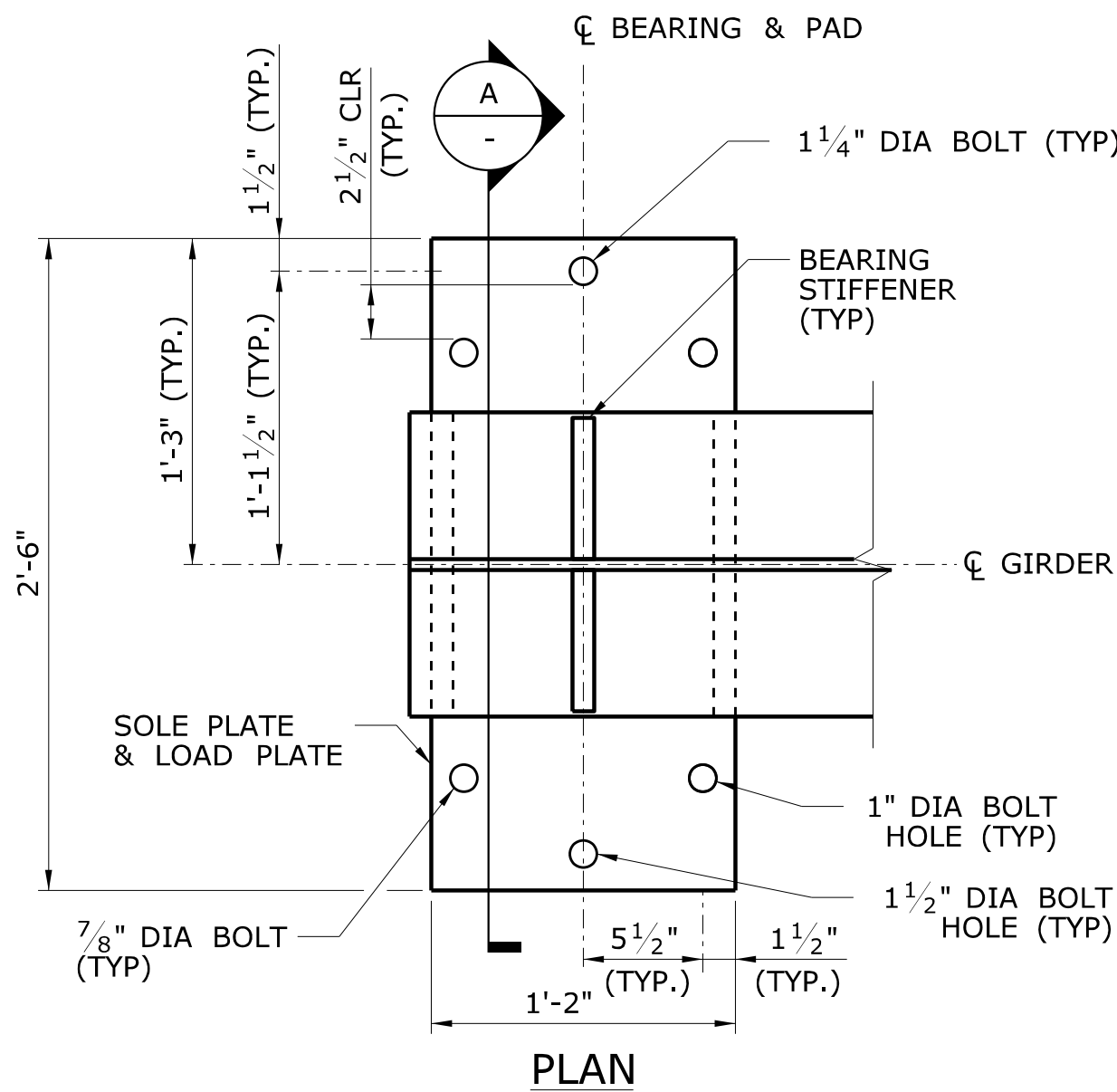
 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION
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SIGNATURE/ BLOCK:	 McFARLAND JOHNSON 53 REGIONAL DRIVE CONCORD, NH 03301
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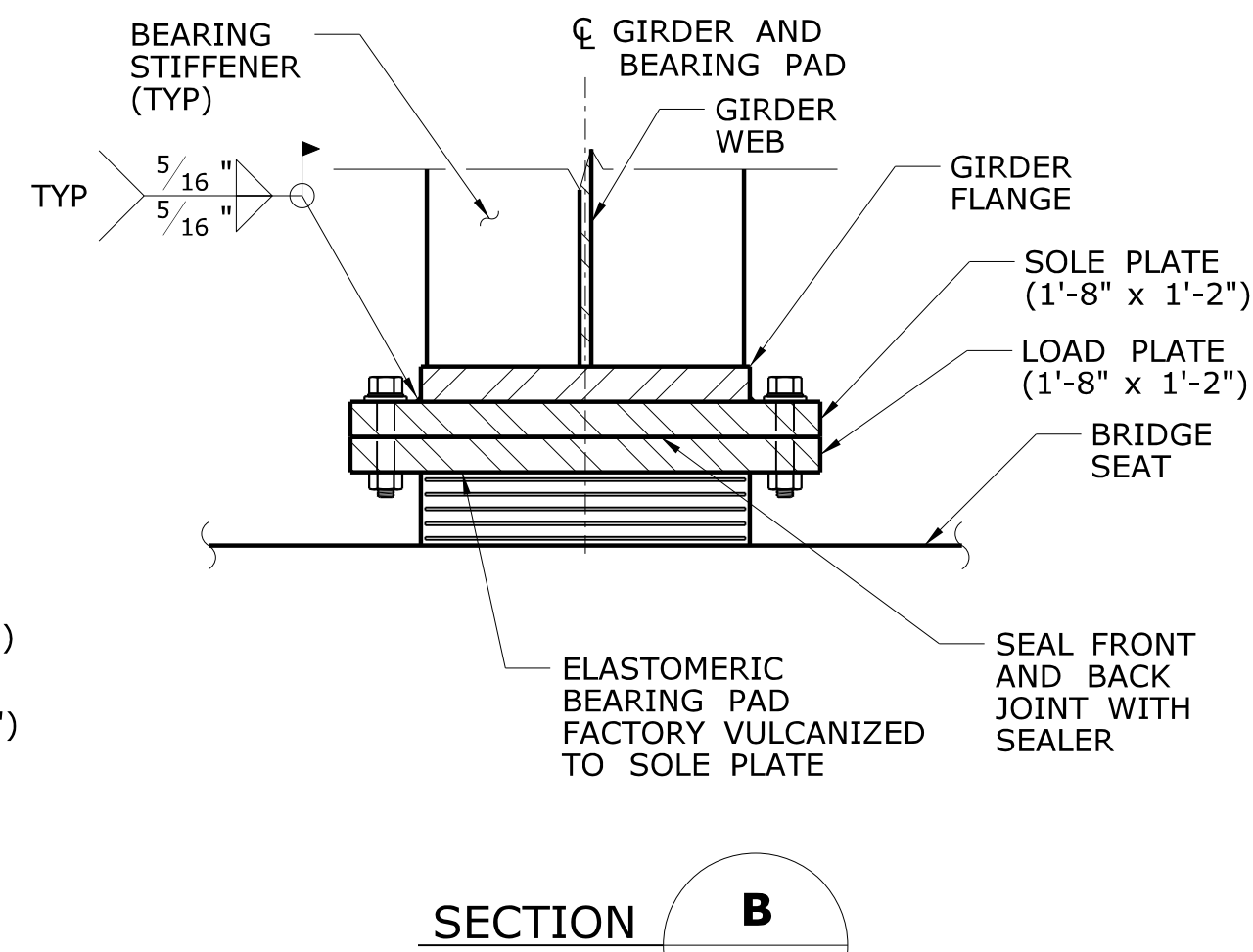
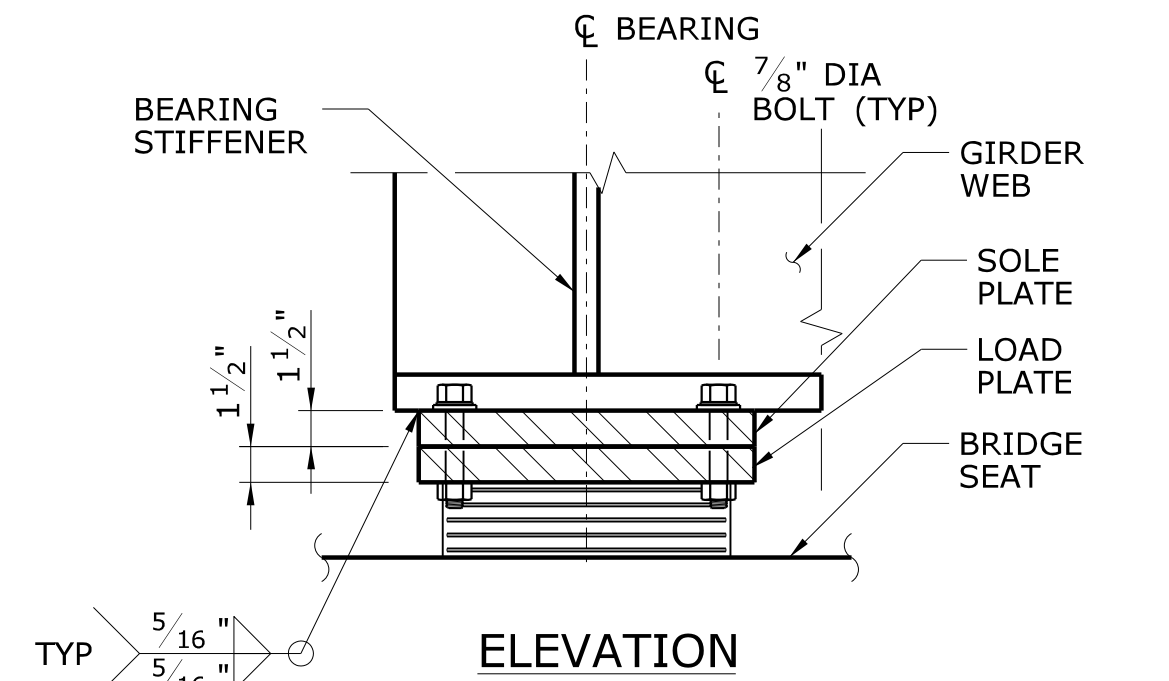
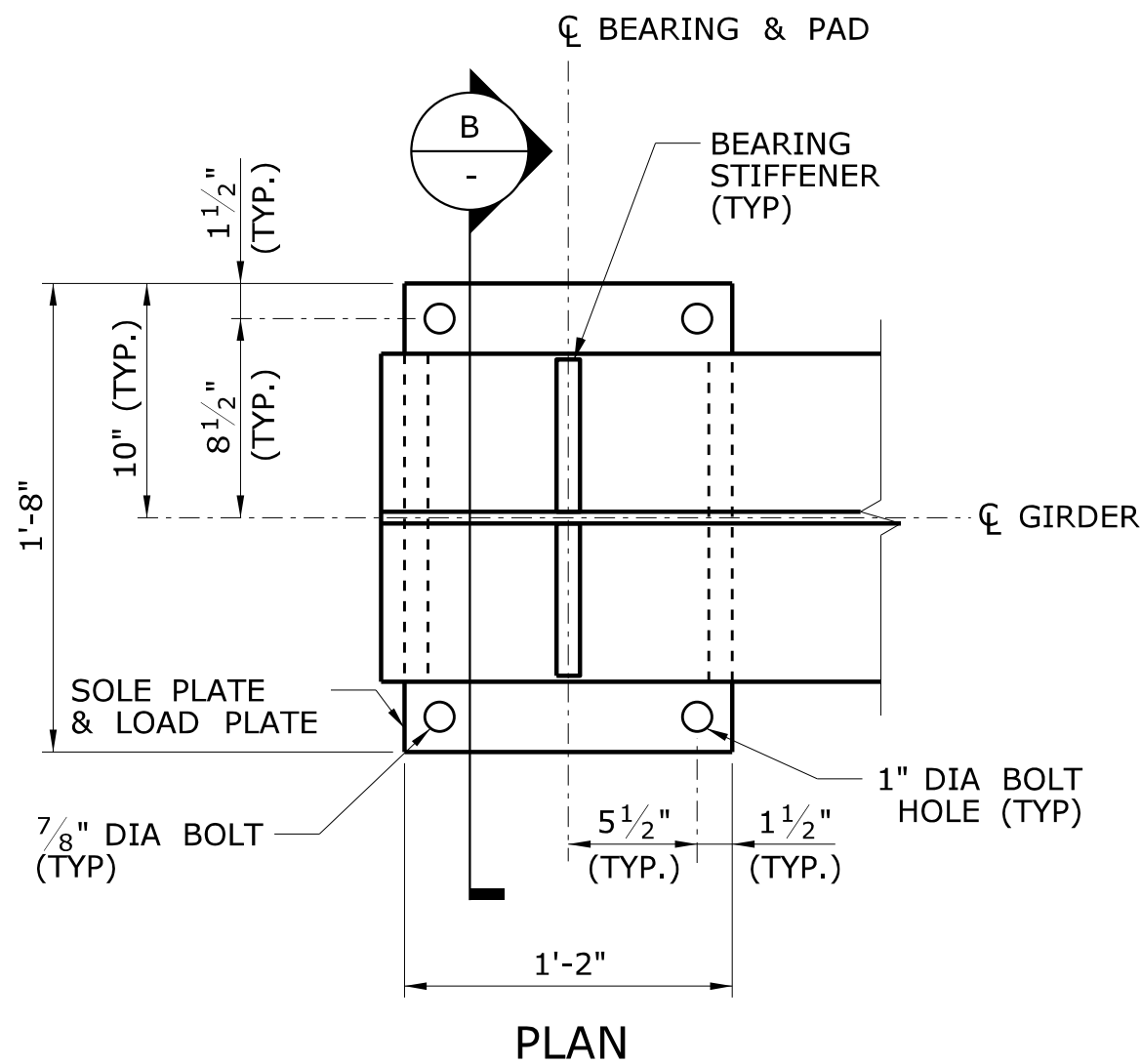
PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833
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TOWN: EAST HARTFORD
DRAWING TITLE: APPROACH SLAB DETAILS

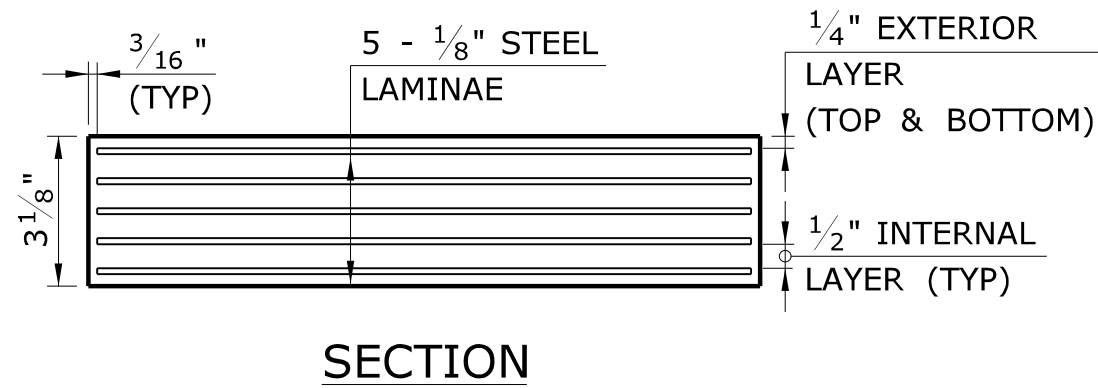
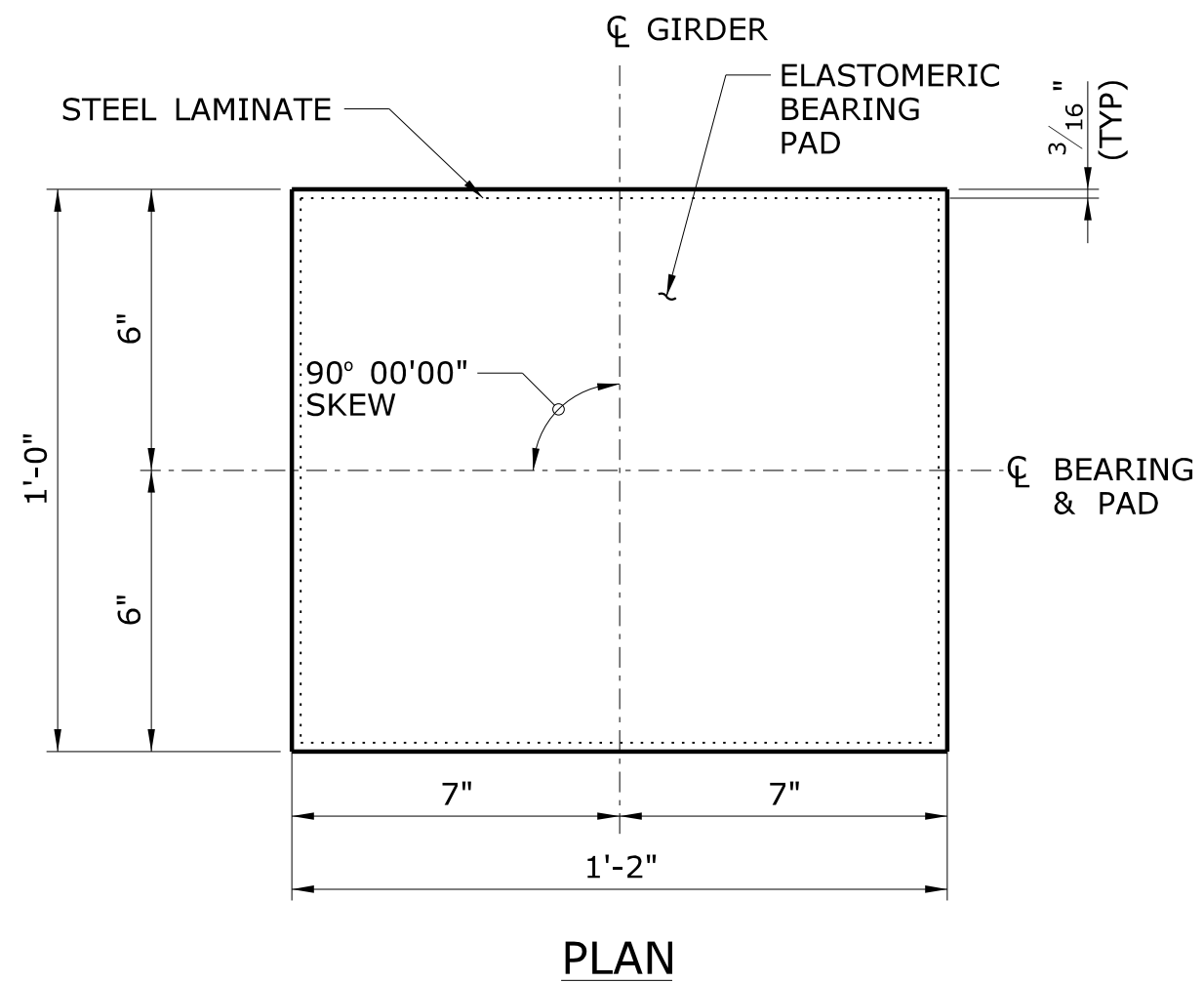
PROJECT NO. 042-304
DRAWING NO. S-29
SHEET NO. 01.04.29



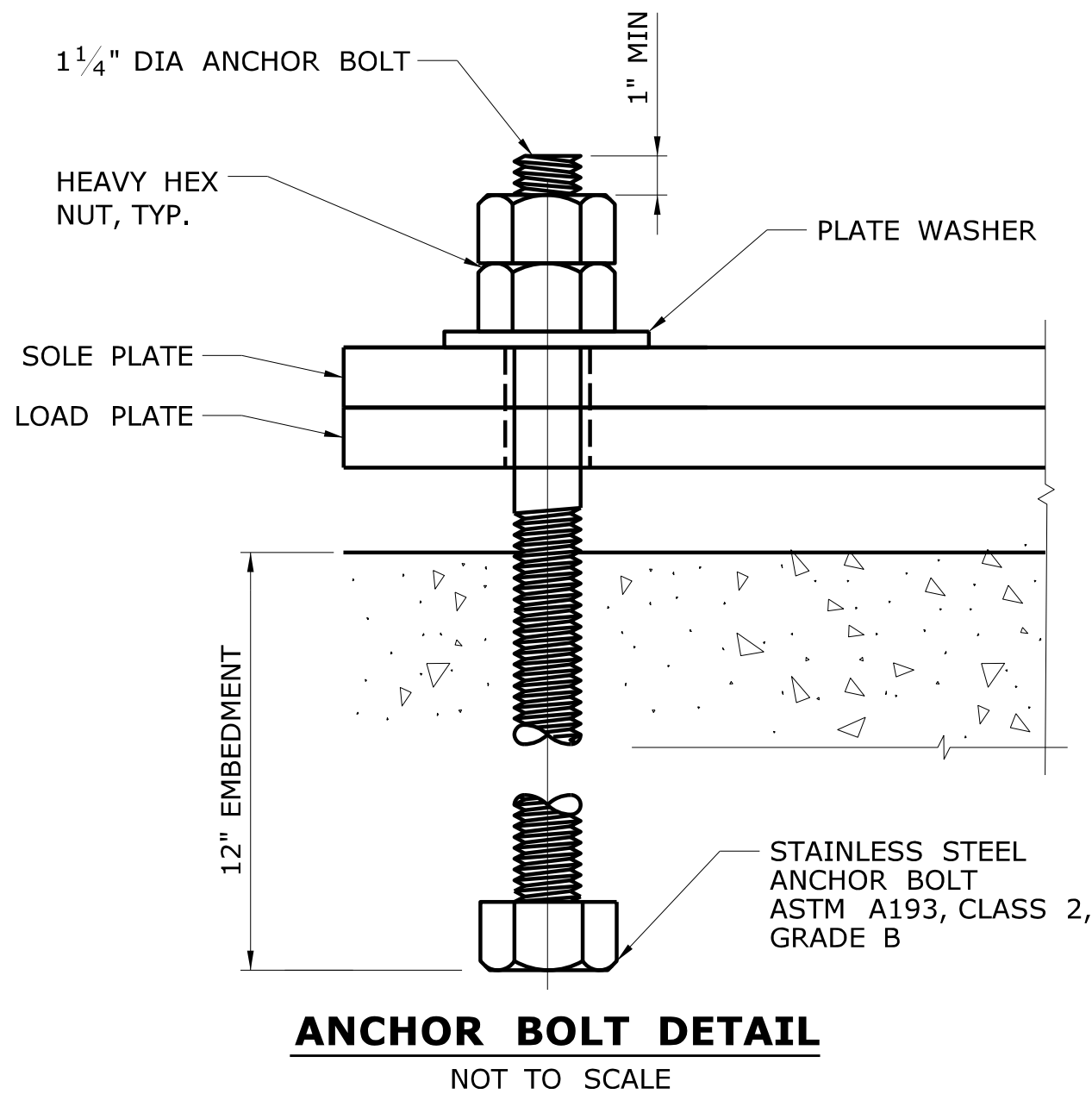
FIXED BEARING DETAIL
 SCALE: 1 1/2" = 1'-0"



EXPANSION BEARING DETAIL
 SCALE: 1 1/2" = 1'-0"



ELASTOMERIC BEARING PAD
 SCALE: 3" = 1'-0"



BEARING NOTES:

1. THE ELASTOMERIC BEARINGS ARE DESIGNED USING "METHOD B" OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
2. THE CONTACTOR SHALL SURVEY THE AS BUILT PEDESTAL MEASUREMENTS AND SUBMIT TO THE ENGINEER FOR REVIEW PRIOR TO STEEL ERECTION.
3. THE ELASTOMER SHALL CONTAIN ONLY VIRGIN POLYCHLOROPRENE (NEOPRENE) AS THE RAW POLYMER AND HAVE A SPECIFIED SHEAR MODULUS BETWEEN 0.110 KSI AND 0.150 KSI.
4. THE INTERNAL STEEL LAMINATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A1011, GRADE 36 OR 40.
5. THE STEEL FOR THE SOLE PLATE AND LOAD PLATE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270, GRADE 50WT2 (WEATHERING STEEL) AS SPECIFIED WITHIN THE ITEM "STRUCTURAL STEEL (SITE NO. 1)"
6. THE BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 TYPE 3.
7. WELDING DETAILS, PROCEDURES AND TESTING SHALL CONFORM TO THE LATEST ANSI/AASHTO/AWS D1.5 - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
8. THE ELASTOMERIC BEARINGS SHALL BE INSTALLED WHEN THE AMBIENT AIR AND BEARING TEMPERATURES ARE BETWEEN 40° F AND 85° F AND HAVE BEEN WITHIN THIS RANGE FOR AT LEAST TWO HOURS.
9. THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC BEARINGS, INCLUDING THE LOAD PLATES, SHALL BE PAID FOR UNDER THE ITEM "STEEL-LAMINATED ELASTOMERIC BEARINGS." THE COST OF THE SOLE PLATES SHALL BE PAID FOR UNDER THE ITEM "STRUCTURAL STEEL (SITE NO. 1)."
10. ANCHOR BOLTS FOR THE BEARING SHALL BE SET BY TEMPLATES BEFORE CONCRETE IS PLACED.

BEARING LOADS (UNFACTORED REACTIONS IN KIPS)	
DEAD LOAD	60 KIPS
LIVE LOAD	85 KIPS
TOTAL LOAD	145 KIPS

REFERENCES:

1. FOR FRAMING PLAN, SEE DWG. NO. S-24.
2. FOR GIRDER ELEVATION, SEE DWG. NO. S-24.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/20/2014

DESIGNER/DRAFTER:
SFD
 CHECKED BY:
JCH
 SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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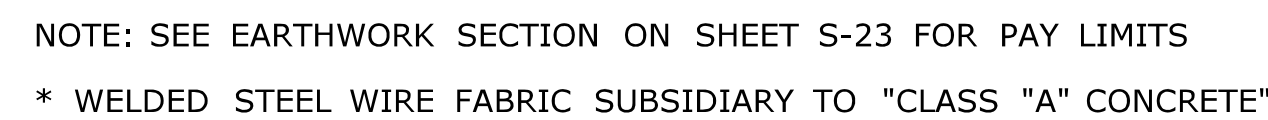
SIGNATURE/BLOCK:

McFARLAND JOHNSON
 53 REGIONAL DRIVE
 CONCORD, NH 03301

PROJECT TITLE:
REPLACEMENT OF BRIDGE
NO. 02374 SR 500 TR 805
OVER I-84 TR 831 & TR 833

TOWN:
EAST HARTFORD
 DRAWING TITLE:
BEARING DETAILS

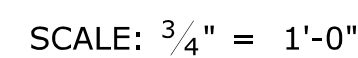
PROJECT NO.
042-304
 DRAWING NO.
S-30
 SHEET NO.
01.04.30



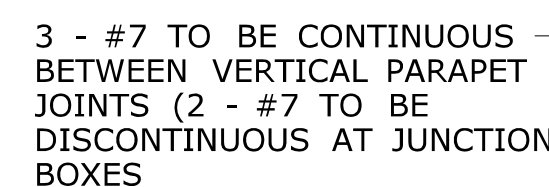
SCALE: $\frac{3}{4}" = 1'-0"$



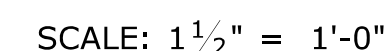
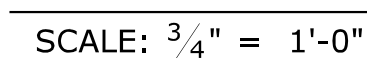
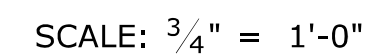
SCALE: $\frac{3}{4}" = 1'-0"$



SCALE: 1 1/2" = 1'-0"





SCALE: $\frac{3}{4}" = 1'-0"$



SCALE: $\frac{3}{4}" = 1'-0"$

1. STEEL PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. THE STEEL PLATES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.
2. ANCHOR BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325, MECHANICALLY GALVANIZED.
3. 1"Ø PIPE SHALL CONFORM TO ASTM A53 GRADE B OR ASTM A501 AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123.
4. RAILWAY ELEMENTS SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEMS.
5. ALL RAIL ANCHORAGE MATERIAL REQUIRED FOR END ATTACHMENTS SHALL BE PAID FOR UNDER THE APPLICABLE ROADWAY ITEMS.

-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: SFD	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 McFARLAND JOHN 53 REGIONAL DRIVE CONCORD, NH 03301	PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 & TR 833	TOWN: EAST HARTFORD	PROJECT NO. 042-304
-	-	-	-	CHECKED BY: JCH	DRAWING NO. S-31						
-	-	-	-	SCALE AS NOTED	SHEET NO. 01.04.31						
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